

REAL ESTATE TRANSFER DISCLOSURE STATEMENT

(CALIFORNIA CIVIL CODE § 1102, ET SEQ.) (C.A.R. Form TDS, Revised 6/23)

THIS DISCLOSURE S	TATEMENT CON	CERNS THE REAL	PROPERTY SITE	DS is for all units (or only unit(s)). UATED IN THE CITY OF
DESCRIBED AS		OUNTY OF	Los Angeles	, STATE OF CALIFORNIA,
			ITION OF THE	ABOVE DESCRIBED PROPERTY IN
COMPLIANCE WITH § KIND BY THE SELLER	1102 OF THE CIV R(S) OR ANY AGE	IL CODE AS OF (DA ENT(S) REPRESEN	ATE) 06/20/2024 TING ANY PRINC	. IT IS NOT A WARRANTY OF ANY CIPAL(S) IN THIS TRANSACTION, AND INCIPAL(S) MAY WISH TO OBTAIN.
		INATION WITH OTH		
This Real Estate Transfer				ivil Code. Other statutes require disclosures,
depending upon the detail				ial study zone and purchase-money liens on
residential property).	. The following died	course and other disc	ocures required by	law, including the Natural Hazard Disclosure
				assessment information, have or will be made
in connection with this re				obligations on this form, where the subject
matter is the same:				
Inspection reports conAdditional inspection r		he contract of sale or r	eceipt for deposit.	
		arty inspections that will be s	upplied to Buyer at buyers	s request if available.
No substituted disclos	ures for this transfer.			
		II. SELLER'S INI	FORMATION	
The Seller discloses the	e following informa	ation with the knowl	edge that even th	nough this is not a warranty, prospective
				rchase the subject property. Seller hereby
				a copy of this statement to any person or
entity in connection with			•	ID ADE NOT THE DEDDESENTATIONS
				ID ARE NOT THE REPRESENTATIONS NOT INTENDED TO BE PART OF ANY
CONTRACT BETWEEN			LOSURE AND IS	NOT INTENDED TO BE PART OF ANT
Seller <u>is is not</u> oc	_	_		
A. The subject propert		•		
	Buyer is aware that the	Wall/Window Air Co	nditioning	□ Pool:
— ·	security system does not convey with sale of the	Sprinklers	nationing	Child Resistant Barrier
Microwave	home. Electronic	Public Sewer System	n	Pool/Spa Heater:
Dishwasher	Locksets, Kwikset 914 (or similar, present and	Septic Tank		Gas Solar Electric
Trash Compactor	in place) will be removed	Sump Pump		Water Heater:
	and replaced with a standard lock prior to the	Water Softener		Gas Solar Electric
Washer/Dryer Hookups	close of escrow.	Patio/Decking		Water Supply:
Rain Gutters		Built-in Barbecue		City Well
Burglar Alarms Carbon Monoxide Device	20(0)	Gazebo		Private Utility or
Smoke Detector(s)	e(s)	Security Gate(s) Garage:		Other <u>Los Angeles Department of</u> Gas Supply: Water & Power (LADWP)
Fire Alarm		Attached Not	Attached	Utility Bottled (Tank)
TV Antenna		Carport	tttaorioa	Window Screens
Satellite Dish		Automatic Garag	e Door Opener(s)	Window Security Bars
Intercom		Number Remote		Quick Release Mechanism on
Central Heating		Sauna		Bedroom Windows
Central Air Conditioning		☐ Hot Tub/Spa:		Water-Conserving Plumbing Fixtures
Evaporator Cooler(s)		Locking Safety C	over	
Exhaust Fan(s) in		220 Volt Wiring in		Fireplace(s) in Living room
Gas Starter	Roof(s): Type	: Shingles		Age: <u>2 years</u> (approx.)
	(0 - 11 - 11 - 1 - 1 - 1 - 1 - 1	- d £ #b b	- 4144 !	
				erating condition? Yes/ No. If yes, then no items remaining in home at time of sale will be left.
•		• • • • • • • • • • • • • • • • • • • •		nd verify all information relating to this property
(*see note on page 2)	<u>, , , , , , , , , , , , , , , , , , , </u>	-		aced during prior ownership - Details unknown.
© 2023, California Association of F	REALTORS®, Inc.			
TDS REVISED 6/23 (PAG	E 1 OF 3) Bu	uyer's Initials	·	Seller's Initials MM / EDUAL MOUSING OPPORTUNITY
RE	AL ESTATE TRA	NSFER DISCLOSU	RE STATEMENT (TDS PAGE 1 OF 3)
Opendoor Brokerage Inc., 303 2nd St ST Mark Biggins	E 600 South Tower San Francisc	co CA 94107	Phone: 4	1807799000 Fax: Dallas, TX 75201 <u>www.lwolf.com</u>

Property	Address:	6944 Lena Ave, West Hills, CA 91307	Date: 06/20/2024
B. Are	you (Seller) aware of any signifi	cant defects/malfunctions in any of the following?	Yes/No. If yes, check appropriate
		Exterior Walls ☐ Insulation ☐ Roof(s) ☐ Wind	
		Seller encourages Buyer to have their own inspections performed and	
)
If any o	f the above is checked, explain. (A	ttach additional sheets if necessary.):	
garage monoxi of Chap § 1159; mechar family r Addition required with § 1	door opener, or child-resistant poode device standards of Chapter 8 (ster 12.5 (commencing with § 198520) of Chapter 5 of Part 10 of Divisisms in compliance with the 1995 esidences built on or before January 1, 2014 to be equipped with water-consentative of the Civil Code.	r amenity is not a precondition of sale or transfer of the barrier may not be in compliance with the safety succommencing with § 13260) of Part 2 of Division 12 of) of Part 3 of Division 13 of, or the pool safety stains of 104 of, the Health and Safety Code. Windows addition of the California Building Standards Code. § 1 dary 1, 1994, to be equipped with water-conserving a single-family residence built on or before Janua ving plumbing fixtures as a condition of final approvalulowing:	tandards relating to, respectively, carbon of, automatic reversing device standards andards of Article 2.5 (commencing with security bars may not have quick-release 101.4 of the Civil Code requires all single-plumbing fixtures after January 1, 2017. In 1994, that is altered or improved is I. Fixtures in this dwelling may not comply
٠.	· · · · · · · · · · · · · · · · · · ·	ised paint, mold, fuel or chemical storage tanks, and	
	•	and paint, more, recipilation of one mean storage tarks, and	
2.	, , , ,	n common with adjoining landowners, such as walls,	
		aintenance may have an effect on the subject proper	
3.	Any encroachments, easements	or similar matters that may affect your interest in the	subject property Tes No
4.	Room additions, structural modifie	cations, or other alterations or repairs made without i	necessary permits Yes No
5.		cations, or other alterations or repairs not in complian	
6.		he property or any portion thereof	
7.	Any settling from any cause, or sl	ippage, sliding, or other soil problems	
8.	Flooding, drainage or grading pro	blems	
9.		any of the structures from fire, earthquake, floods, or	
10.	Any zoning violations, nonconform	ning uses, violations of "setback" requirements	Yes No
11.	Neighborhood noise problems or	other nuisances	
		or obligations	
		nas any authority over the subject property	
14.		h as pools, tennis courts, walkways, or other areas o	
	,		
	Any lawsuits by or against the Sel pursuant to § 910 or 914 threate to § 900 threatening to or affecting pursuant to § 903 threatening to pursuant to § 910 or 914 alleging a	ons against the property	s for damages by the Seller reach of warranty pursuant ranced protection agreement uits or claims for damages reas" (facilities such
If the ar	nswer to any of these is ves. explain	n. (Attach additional sheets if necessary.):	
		er to have their own inspections performed and verify all information relating to	this property
2) Sh	ared fence line with adjoining house.	12) Buyer to confirm CC&Rs per	neighborhood
	Code by having operable smoke of regulations and applicable local some Seller certifies that the proper by having the water heater tank(sertifies that the information here	ty, as of the close of escrow, will be in compliance wi) braced, anchored, or strapped in place in accordar in is true and correct to the best of the Seller's k	n accordance with the State Fire Marshal's ith § 19211 of the Health and Safety Code nee with applicable law.
Seller.	Magan Maria	zed Signer on Behalf of Opendoor Property Trust I	Date 06/20/2024
Seller	Megan Meyer	Cpondoor reporty mater	Date
Seller			Date
			^
TDS R	EVISED 6/23 (PAGE 2 OF 3)	Buyer's Initials / Selle	er's Initials MM/ EQUAL HOUSING OPPORTURITY

B		_	D / 2010010004
Property Address:	6944 Lena Ave, West Hills, CA 9130		Date: 06/20/2024
(To be com	pleted only if the Seller is repr		is transaction.)
•	• •		AS TO THE CONDITION OF THE
PROPERTY AND BASED O	N A REASONABLY COMP	ETENT AND DILIGENT	VISUAL PECTION OF THE
ACCESSIBLE AREAS OF HE		ION W H I HA I INQUIR	Y, STATES THE FOLLOW G:
Agent notes no items for disclo	pection Disclosure (AVID For) osure.		
Agent notes the following items	s:		
Agent (Broker Representing Seller)	Opendoor Brokerage Inc.	By Alexis Schla	ttman Date 06/20/2024
Agent (Broker Representing Seller)	(Please Print)	(Associate Licensee or	
	IV. A OFNITIO INODEC	TION DIGGI COURT	
(To be completed	IV. AGENT'S INSPEC I only if the agent who has obt		an the agent above)
THE UNDERSIGNED, BASED	· ·		- ·
ACCESSIBLE AREAS OF HE			
	pection Disclosure (AVID For)		
Agent notes no items for disclo	osure. s:		
Agent notes the following items	5		
Agent (Broker Obtaining the Offer)		By	Broker Signature)
	(Please Print)	(Associate Licensee or	Broker Signature)
PROPERTY AND TO PRO	OVIDE FOR APPROPRIATE	PROVISIONS IN A COM	E AND/OR INSPECTION OF THE NTRACT BETWEEN BUYER AND
I/WE ACKNOWLEDGE RECE	CT TO ANY ADVICE/INSPECT		
A A A A A A A A A A A A A A A A A A A	ionzed digital on behalf of	Buyer	Date
Р	Opendoor Date 06/20/2024 Property Trust		
Seller	Date	Buyer	Date
Agent (Broker Representing Seller)	Opendoor Brokerage Inc.	ByAlexis Sc	hlattman Date 06/20/2024
, igoni (2, ene. , top, eeeg ee)	(Please Print)	(Associate Licensee or E	Broker Signature)
Agent (Broker Obtaining the Offer)		By	Date
Agent (Bloker Obtaining the Oner)	(Please Print)	By (Associate Licensee or E	Broker Signature)
§ 1102.3 OF THE CIVIL COD	E PROVIDES A BUYER WIT	TH THE RIGHT TO RES	CIND A PURCHASE CONTRACT
			DELIVERY OCCURS AFTER THE
HE PRESCRIBED PERIOD.	FUNCHASE. IF TOU WISH	IO RESCIND THE CON	TRACT, YOU MUST ACT W H
A REAL ESTATE BROKER	QUALIFIE TO ADVISE	ON REAL ESTATE. IF	YOU DESIRE LEGAL ADVICE,
CONSULT YOUR ATTORNEY.			,

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SELLER PROPERTY QUESTIONNAIRE

(C.A.R. Form SPQ, Revised 12/23)

This form is not a substitute for the Real Estate Transfer Disclosure Statement (TDS). It is used by the Seller to provide additional information when a TDS is completed. If Seller is exempt from completing a TDS, Seller should complete an Exempt Seller Disclosure (C.A.R. Form ESD) or may use this form instead:

NOTE TO SELLER: YOU ARE STRONGLY ADVISED TO CAREFULLY REVIEW THE DISCLOSURE INFORMATION ADVISORY (C.A.R. Form DIA) BEFORE YOU COMPLETE THIS SELLER PROPERTY QUESTIONNAIRE. ALL SELLERS OF CALIFORNIA REAL PROPERTY ARE REQUIRED TO PROVIDE VARIOUS DISCLOSURES, EITHER BY CONTRACT, OR BY STATUTE OR CASE LAW. MANY DISCLOSURES MUST BE MADE WITHIN CERTAIN TIME LIMITS. TIMELY AND THOROUGH DISCLOSURES HELP TO REDUCE DISPUTES AND FACILITATE A SMOOTH SALES TRANSACTION.

Selle	ei makes me		n regard to the real prope , CA 91307			
situa	ated in	West Hills				California ("Property").
Пт	his property i	s a duplex, triplex or four	olex. A SPQ is required fo			
	Agent(s), if substitute f part of the or other pe qualified to	any. This disclosure a for any inspections or contract between Buye rson working with or t advise on real estate tra	statement is not a warr warranties the principal r and Seller. Unless oth hrough Broker has not ansactions. If Seller or B	anty of any kind (s) may wish to o erwise specified in verified informatio uyer desires legal	by the Seller or obtain. This discl n writing, Broker on provided by S advice, they shou	
	 Property and Answer Someth Think at Read th If you of question 	I help to eliminate misund based on actual knowled ing that you do not considue oout what you would wan e questions carefully and do not understand how n, whether on this form of the properties of the stand how n, whether on this form of the stand how n, whether on this form of the stand how help whether the stand how the stand	lerstandings about the con ge and recollection at this ler material or significant n t to know if you were buyin take your time. to answer a question, or	dition of the Proper time. nay be perceived dit g the Property toda what to disclose asult a real estate a	ty. fferently by a Buyer y. or how to make a attorney in Califorr	a disclosure in response to a nia of your choosing. A broker
4.	of the Prope Someth If somet Sellers Seller's SELLER AV "No." A "yes	rty and help to eliminate ring that may be material of thing is important to you, locally one only disclose what the disclosures are not a sub VARENESS: For each stars" answer is appropria	nisunderstandings about the significant to you may not be sure to put your concerned actually know. Seller mastitute for your own investitute to the sidner of the sidner to be some the teno matter how long as the sidner of the	ne condition of the Fot be perceived the ns and questions in any not know about a gations, personal jue e question "Are you ago the item being	Property. same way by the S writing (C.A.R. forr ill material or signif dgments or commo u (Seller) aware of g asked about ha	n BMI). icant items.
	(whether prepared pertaining to easements, Seller	pections, disclosures, we pared in the past or pro (i) the condition or repa encroachments or bound provide any such docu	esent, including any prev air of the Property or any ary disputes affecting the l	ious transaction, ai improvement on the Property whether or on to Buyer.	estimates, studies, nd whether or not nis Property in the ral or in writing and	YOU (SELLER) AWARE OF surveys or other documents Seller acted upon the item), past, now or proposed; or (ii) whether or not provided to the
6.	STATUTOR	ILY OR CONTRACTUAL	LY REQUIRED OR RELA	TED:	ARE	YOU (SELLER) AWARE OF
	A. Within the (Note to AIDS.)	he last 3 years, the death o seller: The manner of d	of an occupant of the Propeath may be a material fac	berty upon the Frop	erty	Yes No No Ned, except for a death by HIV/
			Ith official identifying the P			
	metham	iphetamine. (If yes, attach	na copy of the Order.)	the Proporty		Yes X No
	D. Whethe	r the Property is located i	u substance on or beneatr n or adjacent to an "industi	i uie riopeity ial use" zone		Yes X No
	(In gene	eral, a zone or district allo	wing manufacturing, comm	ercial or airport use	es.)	
	E. Whethe	r the Property is affected	by a nuisance created by a	an "industrial use" z	one	Yes x No
	F. Whethe	r the Property is located v	vithin 1 mile of a former fed or military training purposes	deral or state ordna	nce location	
						:
	G. Whethe	r the Property is a condor	ninium or located in a plan	ned unit developme	ent or other	
© 202 SPC			Buyer's Initials			
		SELLE	R PROPERTY QUESTI	ONNAIRE (SPQ	PAGE 1 OF 4)	EDUAL HOUSING GPPORTUNITY
Opend Mark	loor Brokerage Inc., Biggins	303 2nd St STE 600 South Tower San Produced with Lor	Francisco, CA 94107 ne Wolf Transactions (zipForm Edition)	Phone 717 N Harwood St, Suite 220	e: 4807799000 Fa 0, Dallas, TX 75201 <u>www</u> .	x: lwolf.com

latters affecting title of the Property lumbing fixtures on the Property that are non-compliant plumbing fixtures as defined by Civil Code § 1101.3 laterial facts or defects affecting the Property not otherwise disclosed to Buyer	Yes X Yes Yes Yes Yes X Yes X Yes	RE OF
lumbing fixtures on the Property that are non-compliant plumbing fixtures as defined by Civil Code § 1101.3 laterial facts or defects affecting the Property not otherwise disclosed to Buyer	X Yes	RE OF
laterial facts or defects affecting the Property not otherwise disclosed to Buyer mation, or (if checked) see attached; J) Seller has not inspected for plumbing fixtures, buyer should verify compliance. IRS AND ALTERATIONS: Ny alterations, modifications, replacements, improvements, remodeling or material repairs on the Property moduling those resulting from Home Warranty claims) Ny alterations, modifications, replacements, improvements, remodeling, or material repairs to the Property one for the purpose of energy or water efficiency improvement or renewable energy? No example, drain or sewer clean-out, tree or pest control service) Ny part of the Property being painted within the past 12 months Nether the Property was built before 1978 (if No, leave (a) and (b) blank) No lf yes, were any renovations (i.e., sanding, cutting, demolition) of lead-based paint surfaces started or completed (if No, leave (b) blank)	Yes	RE OF
ARE YOU (SELLER NO ALTERATIONS: ny alterations, modifications, replacements, improvements, remodeling or material repairs on the Property including those resulting from Home Warranty claims) ny alterations, modifications, replacements, improvements, remodeling, or material repairs to the Property one for the purpose of energy or water efficiency improvement or renewable energy? ny part of the Property being painted within the past 12 months ny part of the Property was built before 1978 (if No, leave (a) and (b) blank)	X Yes	RE OF
IRS AND ALTERATIONS: ny alterations, modifications, replacements, improvements, remodeling or material repairs on the Property including those resulting from Home Warranty claims)	Yes	RE OF
ny alterations, modifications, replacements, improvements, remodeling or material repairs on the Property including those resulting from Home Warranty claims)	Yes X Yes Yes X Yes	
ny alterations, modifications, replacements, improvements, remodeling or material repairs on the Property including those resulting from Home Warranty claims)	Yes X Yes Yes X Yes	
ny alterations, modifications, replacements, improvements, remodeling, or material repairs to the Property one for the purpose of energy or water efficiency improvement or renewable energy?	X Yes	S N
one for the purpose of energy or water efficiency improvement or renewable energy?	Yes	
Ingoing or recurring maintenance on the Property or example, drain or sewer clean-out, tree or pest control service)	Yes	
or example, drain or sewer clean-out, tree or pest control service)	X Yes	s 🖺 N
ny part of the Property being painted within the past 12 months	X Yes	s 🖺 N
/hether the Property was built before 1978 (if No, leave (a) and (b) blank)	x Yes	s N
a) If yes, were any renovations (i.e., sanding, cutting, demolition) of lead-based paint surfaces started or completed (if No, leave (b) blank) Yes No No) If yes to (a), were such renovations done in compliance with the Environmental Protection Agency Lead- action: D. Interior painting done for the property. E. Home was built prior to 1978 - See Lead Based Paint Addo 7B. Owned solar panels present in the property, buyer should have their own inspection. CTURAL, SYSTEMS AND APPLIANCES: ARE YOU (SELLER	_	ш.
ompleted (if No, leave (b) blank)	endum	
ased Paint Renovation Rule	endum	
nation: D. Interior painting done for the property. E. Home was built prior to 1978 - See Lead Based Paint Adde 7B. Owned solar panels present in the property, buyer should have their own inspection. CTURAL, SYSTEMS AND APPLIANCES: ARE YOU (SELLER	endum	
CTURAL, SYSTEMS AND APPLIANCES: ARE YOU (SELLER	endum	
CTURAL, SYSTEMS AND APPLIANCES: ARE YOU (SELLER		
		RE OF
efects in any of the following (including past defects that have been repaired): heating, air conditioning, elec		
ncluding the presence of polybutylene pipes), water, sewer, waste disposal or septic system, sump pumps, w		
nimney, fireplace foundation, crawl space, attic, soil, grading, drainage, retaining walls, interior or exterior o		
		<i></i>
/hether any structure on the Property is an Accessory Dwelling Unit (ADU)	H	
) If Yes to D. has the ADU received a permit or other government approval	revious	eller m
2) If Yes to D, are there separate utilities and meters for the ADU	gh-grade c was ins	insulat
nation: 8A. Replaced various damaged laminate planks throughout the house. For leak repairs see section 10A.	unk	nown
<u> </u>	·	<u> </u>
	Ye	s 📕 N
. ,		
	Yes	s x N
		. V .
	☐ 1e	• <u>•</u> •
, ANIMALS AND PESTS: ARE YOU (SELLER) AWA	RE OF
ast or present pets on or in the Property	x Ye	
ast or present problems with livestock, wildlife, insects or pests on or in the Property	Ye:	s 👿 N
ast or present odors, urine, feces, discoloration, stains, spots or damage in the Property, due to any of the abo		
	Yes	s X N
	Ye	s 🛛 N
so, when and by whom		
nation: A. Previous seller had pet(s), details unknown		
TYNATE OF THE VIEW	The leasing of any of the following on or serving the Property: solar system, water softener system, water purifier system, or propane tank(s)	Previous seller mentioned backup in the second bathroom; new piping was installed. Details unknown. STER RELIEF, INSURANCE OR CIVIL SETTLEMENT: ARE YOU (SELLER) AWAI clair relief or assistance, insurance or settlement, sought or received, from any federal, state, local or private agency, ir e party, by past or present owners of the Property, due to any actual or alleged damage to the Property arising from quake, fire, other disaster, or occurrence or defect, whether or not any money received was actually used to make reporty of the disaster assistance conditioned upon obtaining and maintain flood insurance on the property

oper	erty Address:	
2. BC	BOUNDARIES, ACCESS AND PROPERTY USE BY OTHERS: ARE YOU (S	ELLER) AWARE OF.
	A. Surveys, easements, encroachments or boundary disputes	
В.	3. Use or access to the Property, or any part of it, by anyone other than you, with or without permission, for	any purpose, includin
	but not limited to, using or maintaining roads, driveways or other forms of ingress or egress or other tra	vel or drainage
_		
	C. Use of any neighboring property by you	Yes X N
Ex	Explanation:	
		ELLER) <u>A</u> WARE OF:
Α.	A. Diseases or infestations affecting trees, plants or vegetation on or near the Property	Yes x N
	3. Operational sprinklers on the Property	
	(1) If yes, are they automatic or manually operated.	
	(1) If yes, are they \square automatic or \square manually operated.	
	(2) If yes, are there any areas with trees, plants or vegetation not covered by the sprinkler system	Yes 🛛 N
C.	C. A pool heater on the Property	Yes x N
	If yes, is it operational?	
П	D. A spa heater on the Property	
D.	1 ,	
	If yes, is it operational?	
E.	E. Past or present defects, leaks, cracks, repairs or other problems with the sprinklers, pool, spa, waterfall, p	
	or other water-related decor including any ancillary equipment, including pumps, filters, heaters and cle-	aning systems, even
	repaired	
_		
ΕX	Explanation:	
_		
-	CONDOMINIUMS, COMMON INTEREST DEVELOPMENTS AND OTHER SUBDIVISIONS: (IF APPLICABLI	=1
		= <i>)</i> ELLER) AWARE OF.
	 Property being a condominium or located in a planned unit development or other common interest subdivis 	
В.	3. Any Homeowners' Association (HOA) which has any authority over the subject property	Yes x N
C.	C. Any "common area" (facilities such as pools, fitness centers, walkways, conference rooms, or other areas	co-owned in undivide
	interest with others)	
ь.		
	D. CC&R's or other deed restrictions or obligations	
E.	E. Any pending or proposed dues increases, special assessments, rules changes, insurance availability iss	
	against or fines or violations issued by a Homeowner Association or Architectural Committee affecting the	e Property
		TYes X N
F	CC&R's or other deed restrictions or obligations or any HOA Committee that has authority over improvem	ente made on or to th
• • •	Descriptions of other deed restrictions of obligations of any flow confinitee that has authority over improvem	
	Property	L Yes 🔼 N
	(1) If Yes to F, any improvements made on or to the Property inconsistent with any declaration of	
	restrictions or HOA Committee requirement	
	(2) If Yes to F, any improvements made on or to the Property without the required approval of an HOA	
	Committee ☐ Yes ☐ No	
Ev	Explanation: D) Buyer to confirm CC&Rs per neighborhood	
	b) Buyer to confirm CCAR's per neignborhood	
_		
TI	FITLE, OWNERSHIP, LIENS, AND LEGAL CLAIMS: ARE YOU (S	ELLER) AWARE OF
	A. Other than the Seller signing this form, any other person or entity with an ownership interest	
	3. Leases, options or claims affecting or relating to title or use of the Property	
C.	C. Past, present, pending or threatened lawsuits, settlements, mediations, arbitrations, tax liens, mech	anics' liens, notice
-	default, bankruptcy or other court filings, or government hearings affecting or relating to the Property, He	omeowner Associatio
	or neighborhood	
_		
D.	D. Features of the property shared in common with adjoining landowners, such as walls, fences and driv	/eways, <u>w</u> hose <u>us</u> e (
	responsibility for maintenance may have an effect on the subject property	Yes N
E.	E. Any encroachments, easements, boundary disputes, or similar matters that may affect your interest in	the subject propert
	whether in writing or not	
_		
г.	F. Any private transfer fees, triggered by a sale of the Property, in favor of private parties, charitable organi	
	groups or any other person or entity	
G.	3. Any PACE lien (such as HERO or SCEIP) or other lien on your Property securing a loan to pay for an a	alteration, modification
	replacement, improvement, remodel or material repair of the Property	
ш	4. The cost of any alteration, modification, replacement, improvement, remodel or material repair of the Pro	
п.		
	assessment on the Property tax bill	Yes 🗓 N
Ex	Explanation: D. Shared fence line with adjoining house.	
_		

 SPQ REVISED 12/23 (PAGE 3 OF 4)
 Buyer's Initials
 _____/
 _____/
 ______/



ro	perty	Address: 6944 Lena	Ave, West Hills, CA 91307	
6.	NEI	GHBORS/NEIGHBORHOOD:		ARE YOU (SELLER) AWARE OF
			e or other problems from sources such as, but not lin	
			s, trains, light rail, subway, trucks, freeways, buses, s	
		processing, agricultural opera	ations, business, odor, recreational facilities, restauran	ts, entertainment complexes or facilities
			airs, neighborhood parties, litter, construction, air co	
			or appliances, underground gas pipelines, cell phone	
		or wildlife		Yes 📕 No
	В.		or issues with a neighbor which might impact the use, de	
	_			
	Exp	lanation:		
7.	GO	VERNMENTAL:		ARE YOU (SELLER) AWARE OF
	Α.	Ongoing or contemplated em	inent domain, condemnation, annexation or change in	zoning or general plan that applies to or
	В.		rent control, occupancy restrictions, improvement restric	
	_	or could affect the Property		Yes 🗶 No
	C.	Existing or contemplated build	ling or use moratoria that apply to or could affect the Prop	perty Yes X No
	υ.		sessments, or fees that do not appear on the Property tax	
	=		iguration, or closure of nearby Government facilities or ar	
	⊏.		iguration, or closure of flearby Government facilities of ar	
	F.		ment requirements affecting the Property (i) that tall gra	
	• •		andscaping) planting, removal or cutting or (iii) that flam	
		` '	g, p.ag, remeral or calling or () and harm	
	G.	Any protected habitat for plant	ts, trees, animals or insects that apply to or could affect the	ne Property Yes 🙀 No
	H.	Whether the Property is histor	ts, trees, animals or insects that apply to or could affect th ically designated or falls within an existing or proposed H	listoric District Yes 🕱 No
	I.	Any water surcharges or penal	ties being imposed by a public or private water supplier, ag	gency or utility; or restrictions or prohibitions
		on wells or other ground wate	r supplies	Yes No
	J.		name of the city in the postal/mailing address and the ci	
	_			
	Exp	ianation:		
	_			
18.		HER:		ARE YOU (SELLER) AWARE OF
			smoking or vaping any substance on or in the Property, v	
	В.		r any alterations, modifications, improvements, remodeli	
	_		wth	
			ginally constructed as a Manufactured or Mobile home	
	D.		aterial facts or other significant items affecting the value o	
	Evr			
9.			L COMMENTS: The attached addendum contains a	
	in re	esponse to specific questions a	inswered "yes" above. Refer to line and question number	in explanation.
			ovided the answers and, if any, explanations and co	
add	lend	and that such information	is true and correct to the best of Seller's knowledge	as of the date signed by Seller. Seller
ICK	now	leages (I) Seller's obligation	to disclose information requested by this form is inc in this transaction; and (ii) nothing that any such rea	dependent from any duty of disclosure
		Seller from his/her own duty	, of disclosure	il estate licelisee does of says to selle
· · · ·		· · · · · · · · · · · · · · · · · · ·	Authorized Signer on Behalf of	
Sel	ler	Megan Meyer	Opendoor Property Trust I	Date 06/20/2024
	ler	0 0		Date
Зу	sig	ning below, Buyer acknov	wledges that Buyer has read, understands and	has received a copy of this Seller
٦rc	per	ty Questionnaire form.		
	•			
Зuy	/er			Date
3u\	/er			Date
•		alifornia Association of REALTORS® In	nc. United States copyright law (Title 17 U.S. Code) forbids the unauthori	
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SPQ REVISED 12/23 (PAGE 4 OF 4)

NEW PV SYSTEM FOR

STORMS RESIDENCE

6944 LENA AVE, WEST HILLS, CA 91307

CEC POWER OUTPUT: 6.303 kWp SYSTEM SIZE: 6.800 kWp

APN: 2026024011



SCOPE OF WORK

ALL WORK SHALL COMPLY WITH APPLICABLE, LOCAL, MUNICIPAL CODES, AND TO MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS. THE PV SOLAR SYSTEM WILL BE INTERCONNECTED AND OPERATED IN PARALLEL WITH THE UTILITY ELECTRICAL GRID PER THE REQUIREMENTS OF THE UTILITY AND APPLICABLE CODES. THE PV SOLAR SYSTEM IS DESIGNED IN COMPLIANCE WITH CEC 690.12. (RAPID SHUTDOWN).

(20) Q-CELLS Q.PEAK DUO BLK-G6+ 340 (20) ENPHASE MICROINVERTER MODULE: INVERTER:

LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED

B. 110.2 APPROVAL: ALL ELECTRICAL EQUIPMENT SHALL BE

TESTING LABORATORY ACCREDITED BY THE UNITED STATES

OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

A. ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2017 LOS ANGELES COUNTY ELECTRICAL CODE, 2019 CALIFORNIA ELECTRICAL CODE, AND 2017 NATIONAL ELECTRICAL CODE.

GENERAL NOTES

C. RESIDENTIAL ROOF MOUNTED PHOTOVOLTAIC SYSTEM SHALL

BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURES SPECIFICATIONS.

LOCATED OVER A WINDOW, DOOR OR LOCATED WHERE IT CONFLICTS WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE

LIMBS, WIRES OR SIGNS [CRC 324.7.1].

F. A LADDER SHALL BE PROVIDED AND SECURED TO THE

IRONRIDGE XR10 RAILING:

MOUNT: (36) IRONRIDGE FLASHFOOT 2 MSP UPGRADE: NO

VICINITY MAP



PROJECT INFORMATION

SHEET INDEX

PV.1 COVER SHEET

CUSTOMER

SILVERLINE HOME REMODELING CONTRACTOR

PV.4 THREE LINE DIAGRAM

PV.3 ROOF PLAN PV.2 SITE PLAN

PV.5 CALCULATIONS

LOS ANGELES COUNTY
LOS ANGELES COUNTY AUTHORITIES HAVING JURISDICTION 855-884-4790 BUILDING: ZONING: PHONE

UTILITY:

SINGLE-FAMILY RESIDENTIAL DESIGN SPECIFICATIONS OCCUPANCY: CONSTRUCTION:

PV.9 SPECIFICATION SHEETS

Same B

PV.8 MICRO INVERTER MAP

PV.7 DETAILS PV.6 LABELS

> 110 MPH ZONING: WIND EXPOSURE: WIND SPEED:

7501 SQ.FT. 1570 SQ.FT. 2026024011 LOT INFORMATION LOT AREA: LIVING AREA:

INSTALLER NOTES

COGEDENTA. THE DRAWING BY THE PROPERTY
SUPERIOR HANGE HANGE BKN RC. THO THE PROPERTY HANGE BKN RC. THO THE PROPERTY HANGE BKN RC. THO THE BKN RC. THE BKN RC. THE BKN RC. THO THE BKN RC. THE

NEW PV SYSTEM: 6.800 kWp



2019 CALIFORNIA RESIDENTIAL CODE

2019 CALIFORNIA BUILDING CODE

APPLICABLE CODES

2019 CALIFORNIA ELECTRICAL CODE

2019 CALIFORNIA FIRE CODE

2019 CALIFORNIA MECHANICAL CODE

2019 CALIFORNIA PLUMBING CODE

2019 CALIFORNIA GREEN CODE

2019 CALIFORNIA ENERGY CODE

6944 LENA AVE, WEST HILLS, CA 91307 APN: 2026024017

PAPER SIZE: 11" X 17" (ANSI B)

COVER SHEET RAWING TITLE: CHECKED BY: DRAWN BY:

ANY OTHER LOCAL AND MUNICIPAL CODES

PV:1

REVISION

DRAWING NO:

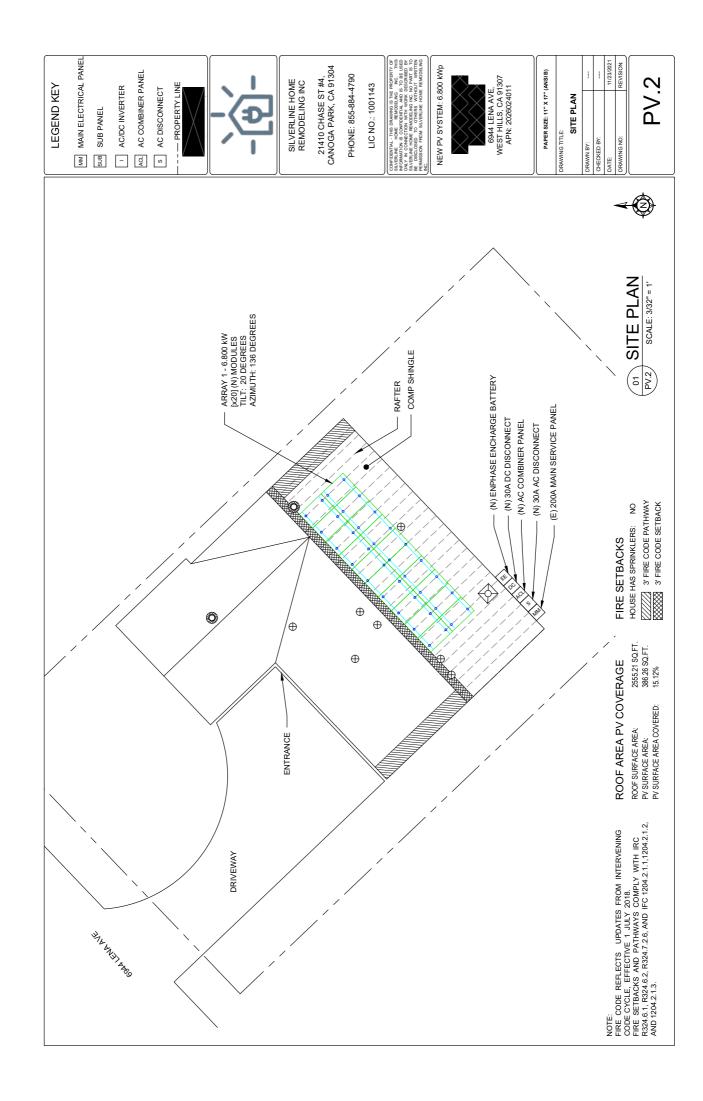


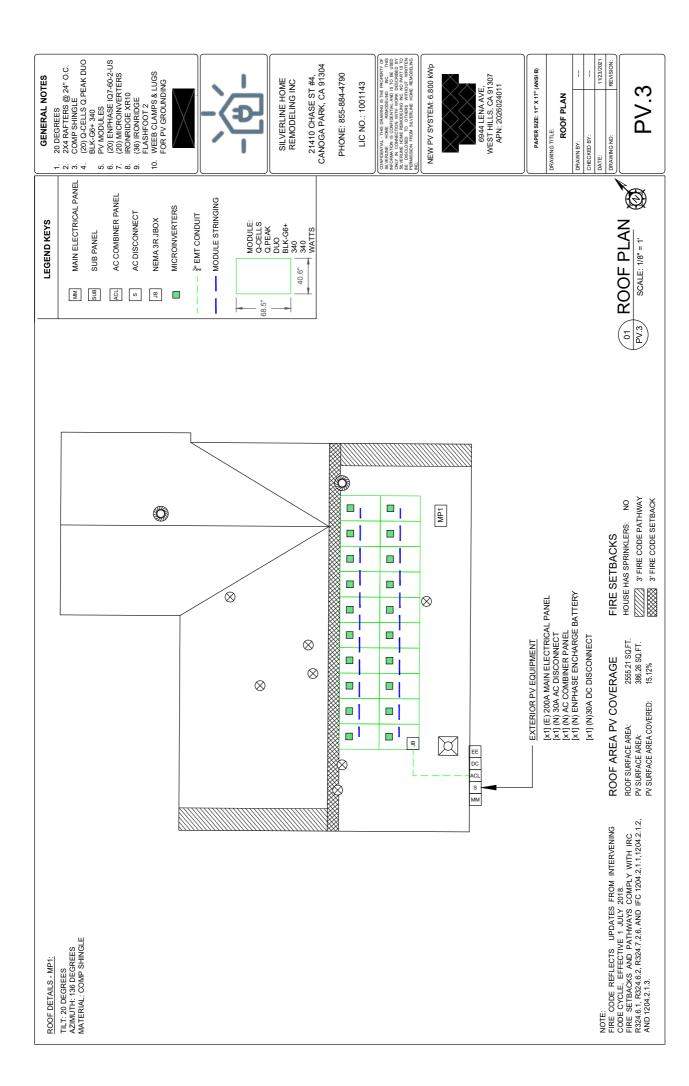
SILVERLINE HOME REMODELING INC 21410 CHASE ST #4, CANOGA PARK, CA 91304

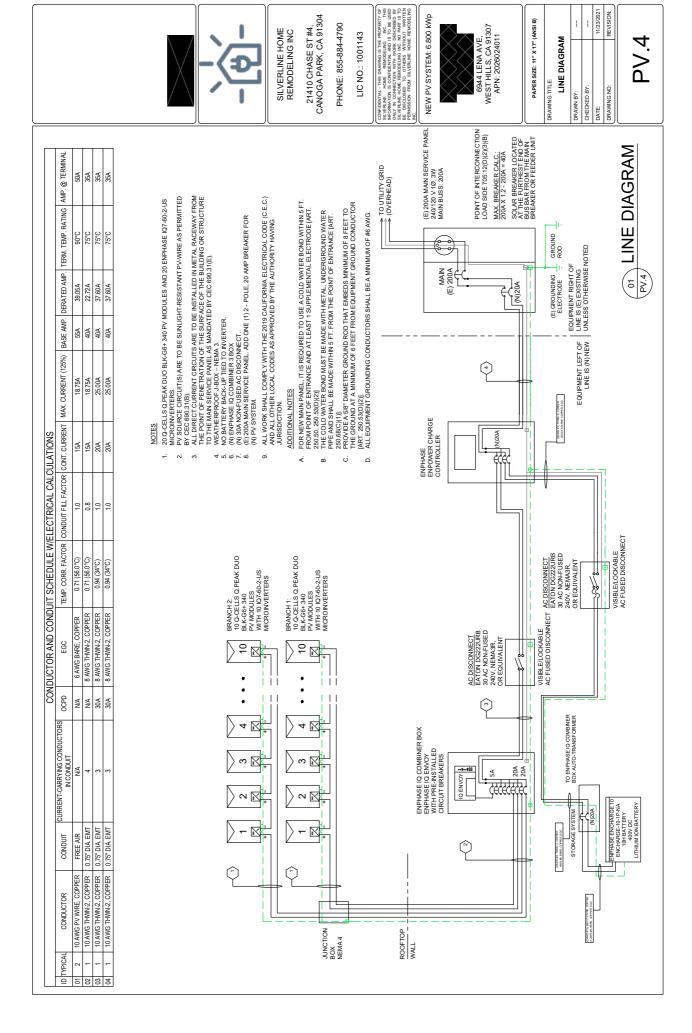
PHONE: 855-884-4790

LIC NO.: 1001143

2020 LOS ANGELES COUNTY ELECTRICAL CODE







11/23/2021



10.00A 2,400W

10.00A 2,400W

SYSTEM SUMMARY

6,800W 6,303W 20.00A 6,367W 6,114W

ARRAY STC POWER
ARRAY PTC POWER
MAX AC CURRENT
MAX AC POWER
DERATED (CEC) AC POWER

CURRENT OUTPUT POWER

DESIGN TEMPERATURES -5.2°C (23.0°F), SOURCE: C M SCHULZ SONOMA CO 38.41°, -122.72° 34°C (98.8°F), SOURCE: C M SCHULZ SONOMA CO 38.41°, -122.72°

ASHRAE EXTREME LOW ASHRAE 2% HIGH

					Z	VERTERS				
Ę	1		TO TO	0.00	CIAT AG GGOO XAN	ı	MAX OUTPUT	MAXINPUT	MAX INPUT	CEC WEIGHTED
<u>.</u>	5	MAKE AND MODEL	AC VOLIAGE G	GROOME	MAX OCPU RAIING	POWER	CURRENT	CURRENT	VOLTAGE	EFFICIENCY
11-20	20	ENPHASE IQ7-60-2-US (240V)	240V	FLOATING	20A	240W	1.0A	15.0A	487	%0'.26

	MAX VOLTAGE	240VAC	240VAC	240VAC	
OCPDS	RATED CURRENT	30A	20A	20A	
	QTY.	ı	1	1	
	REF.	CB1	BR1	BR2	



SILVERLINE HOME REMODELING INC

21410 CHASE ST #4, CANOGA PARK, CA 91304

PHONE: 855-884-4790

LIC NO.: 1001143

DESCRIPTION
Q-CELLS Q-PEAK DUO BLK-G8+ 340 340W, 60 CELLS, MONOCRYSTALLINE SILICON

QTY/UNIT

ENPHASE IQT-60-2-US 240W MICROINVERTER
ENPHASE O CABLE 0-12-10-240
ENPHASE O CABLE TERMINATOR
ENPHASE O CABLE TERMINATOR TO INVERTER FIELD WIREABLE FEMALE CONNECTOR KIT
ENPHASE Q-CONN-10M 10 NURETIER FIELD WIREABLE MALE CONNECTOR KIT
ENPHASE Q-CONN-10M 10 NURETIER FIELD WIREABLE MALE CONNECTOR KIT
6 AWG BARE, COPPER (ARRAY GROUNDING)BONDING)

PIECES
PIECES
PIECES
PIECE
PIECE
PIECE
PIECE
PIECE
PIECE
FIEET
FEET
FEET

MODEL NUMBER
Q, PEAR DUO BILK-G6-340
IQ7-60-2-US
Q-12-10-240
Q-1ERM-R
Q-COMN-10F
Q-CONN-10F
G-CONN-10M
GEN-6-AWO-BARE-CU

MAKE
Q-CELLS
ENPHASE
ENPHASE
ENPHASE
ENPHASE
ENPHASE

CATEGORY

GEN-10-AWG-THWN-2-CU-BLK
GEN-10-AWG-THWN-2-CU-RD
GEN-10-AWG-THWN-2-CU-WH
GEN-8-AWG-THWN-2-CU-BLK

WIRING WIRING

GEN-8-AWG-THWN-2-CU-RD GEN-8-AWG-THWN-2-CU-WH GEN-8-AWG-THWN-2-CU-GR

10 AWG THWN-2, COPPER, WHITE (NEUTRAL)

8 AWG THWN-2, COPPER, BLACK (LINE 1) 10 AWG THWN-2, COPPER, RED (LINE 2)

8 AWG THWN-2, COPPER, RED (LINE 2)

10 AWG THWN-2, COPPER, BLACK (LINE 1)

COMPENTAL: "HIS DRAWING IS THE PROPERTY OF SURVEINE THE SECURITY OF STATE O

NEW PV SYSTEM: 6.800 kWp

6944 LENA AVE, WEST HILLS, CA 91307 APN: 2026024011

PAPER SIZE: 11" X 17" (ANSI B)

EMT CONDUIT, 0.75 DIA.
CIRCUIT BREAKER, 20A, 240VAC
BR, 20A, 240VAC
BR, 20A, 240VAC
TRANSITIONIPASS-THROUGH BOX, WITH 4 TERMINAL BLOCKS

3 AWG THWN-2, COPPER, GREEN (GROUND) 8 AWG THWN-2, COPPER, WHITE (NEUTRAL)

FEET
FEET
FEET
FEET
PIECES
PIECES
PIECES

GEN-EMT-0_75DIA GEN-CB-20A-240VAC GEN-BR-20A-240VAC GEN-BR-20A-240VAC GEN-AWB-TB-44X

GENERIC MANUFACTURER
GENERIC MANUFACTURER
GENERIC MANUFACTURER
GENERIC

WIRING
WIREWAY
OCPD
OCPD
OCPD
TRANSITION BOX

DRAWN BY: CHECKED BY: DATE: 11/23/2021	DESIGN TABLES	g
KED BY:	DRAWN BY:	1
	CHECKED BY:	1
	DATE:	11/23/2021

DESIGN LABLES	0
DRAWN BY:	1
CHECKED BY:	
DATE:	11/23/2021
DRAWING NO:	REVISION:

PV.5

တ

CALCULATION	
6	PV.05

AUTHORIZED SOLAR PERSONNEL ONLY! \odot

WARNING: PHOTOVOLTAIC POWER SOURCE (7)

(6)

(CEC 690.38/F)) PLACE THIS LABEL ON INVERTER(S) OR NEAR GROUND-FAULT INDICATOR (ON INVERTER(S) U.O.N.)

WARNING!
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS
ON BOTH LINE AND LOAD SIDES MAY BE
ENERGIZED IN THE OPEN POSITION DO NOT ON BOTH 4

(CEC 690.5(C)) PLACE THIS LABEL ON <u>ALL</u> DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

AC DISCONNECT (2) [CEC 690.14(C)(2)] PLACE ON AC DISCONNECT

SOLAR PV SYSTEM EQUIPPED

(o)

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

(CEC 680.56(C)(1)(A)) FOR PV SYSTEMS THAT SHUT PRODUCT THE ARRAY. SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT ARRAY: SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT ARRAY: FROM SERVED BISCONNECT THEM ARRAS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL NIDGAFE THE LOCATION OF ALL DISHTHED RAND SHALL SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION

ARRAY

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM (<u>r</u>)

POWER TO THIS BUILDING ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH

CAUTION

6"X6" DISCONNECT DIRECTORY PLAQUE INSTALL AT MAIN SERVICE PANEL

DISCONNECTS LOCATED AS SHOWN

[CEC 690.12(5)] PLACE ON INVERTER

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

(00)

[CEC 690.31(G)3 & 4] PLACE ON JUNCTION BOXES AND CONDUIT EVERY 10'

[CEC 690.56(C)] PLACE AT MAIN SERVICE PANEL

AC DISCONNECT
AC PHOTOVOLTAIC POWER SOURCE
MAX AC OPERATING CURRENT: 20A MA C OPERATING VOLTAGE: (6)

(CEC 680.54) PLACE LABEL AT "INTERACTIVE POINT OF INTERCONNECTION" (AT MAIN SERVICE PANEL AND SUBPANEL IF APPLICABLE)

THIS PANEL IS FED BY MULTIPLE SOURCES (UTILITY & SOLAR)

(9)

(DEC 680.64(B)(4)) PLACE LABEL ON AL EQUIPMENT CONTAINING OVERCUERRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES

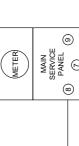
SOLAR Ξ STICKER LOCATED INSIDE PANEL NEXT TO PV BREAKER

(12)

[CEC 690.64(B)(7)] PLACE THIS LABEL AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL AMD SUBPANEL IF APPLICABLE)

MATERIAL REFLECTIVE, WEATHER RESISTANT MATERIAL SUTTABLE FOR THE ENVIRONMENT (USE UL-869 AS STANDARD FOR WEATHER RATING). DURABLE ADHESIVE MATERIALS FORMAT
1. WHITE LETTERING ON A RED BACKGROUND
2. MINIMUM 38 INCHES LETTER HEIGHT
3. ALL LETTERS SHALL BE CAPITALIZED
4. ARIAL OR SIMILAR FONT (NON-BOLD)

SERVICE BY QUALIFIED PERSONNEL ONLY



AC DISCONNECT

O1 LABLES (a) (b) @

®

(9)

(e)

AC LOAD CENTER (2)

(2)

JUNCTION BOX (123)

⊚





SILVERLINE HOME REMODELING INC

21410 CHASE ST #4, CANOGA PARK, CA 91304

— ENPHASE ENCHARGE BATTERY

— 30A DC DISCONNECT

— AC COMBINER PANEL

PHONE: 855-884-4790

LIC NO.: 1001143

< z

UTILITY METER AND METER SERVICE PANEL - AC DISCONNECT

YOU ARE HERE

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NEW PV SYSTEM: 6.800 kWp

6944 LENA AVE, WEST HILLS, CA 91307

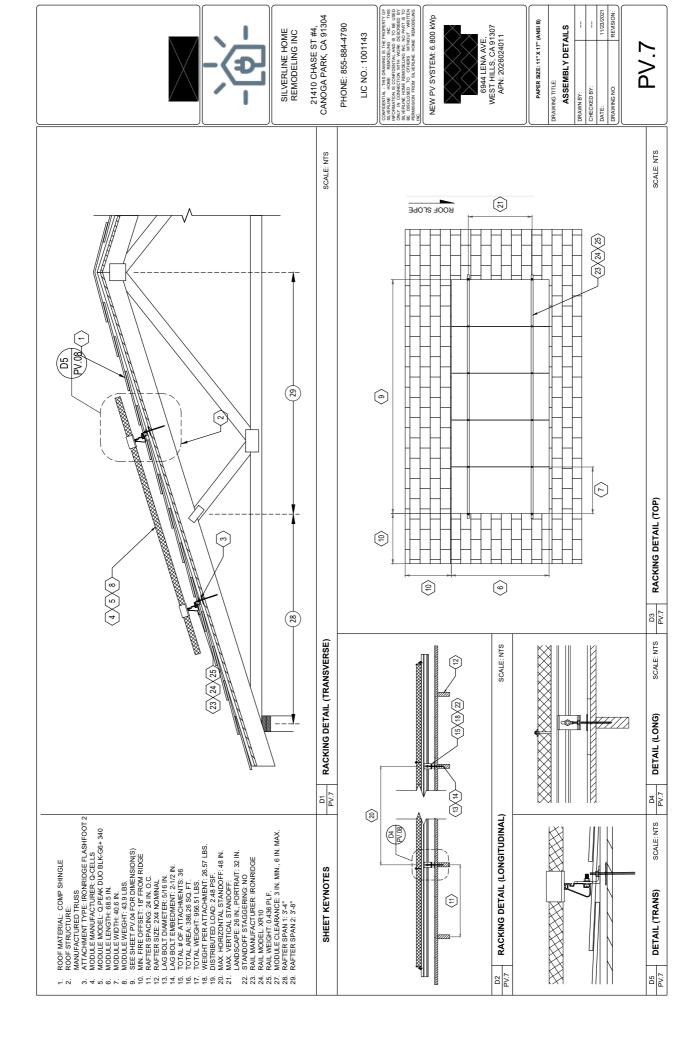
APN: 2026024011

PAPER SIZE: 11" X 17" (ANSI B)

11/23/2021 LABELS DRAWING TITLE: CHECKED BY: DRAWN BY:



DRAWING NO:



6.800 kW DC (STC) (20) Q-CELLS Q.PEAK DUO BLK-G6+340 MODULES & ENPHASE 1Q7-60-2-US MICROINVERTERS



ARRAY 1 20 MODULES 136° AZIMUTH 20° TILT

SILVERLINE HOME REMODELING INC

21410 CHASE ST #4, CANOGA PARK, CA 91304

PHONE: 855-884-4790 LIC NO.: 1001143

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6944 LENA AVE, WEST HILLS, CA 91307 APN: 2026024011

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снескер ву:	
DATE:	11/23/2021
DESCRIPTION NO.	DEL VIOLONIA

PV.8

INVERTER	
MICRO MICRO	60.7
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MECHANICAL SPECIFICATION

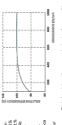
-	In 1000	4 + Georating points e 4.6 mm)				atspam	4 * Mounting abos (DE7AL.A)	- Detail Street
1740mm × 1030mm × 32mm (including frame)	19.9kg	3.2mm thermally pre-stressed glass with anti-reflection technology	Composite film	Black anodised aluminium	6 x 20 monocrystalline Q.ANTUM solar half cells	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes	4mm² Solar cable; (+) ≥1150mm, (-) ≥1150mm	Stäubil MC4, Amphenol UTX, Renhe 05-8, Tongling TI-CehleO19 MTHV IMRO1-IDRR or Erlands DV0s: IDR7	LE CADISOLO, JM 1111 SINGOL, IF CO OF FIGURE 1 Y 25, IF O
Format	Weight	Front Cover	Back Cover	Frame	Cell	Junction box	Cable	Connector	

	attun	 	1
4 + Occurding potes e 4.6 mm	- Lunia -	4 4 Moorting also (DCML A) 6 1 Delegation 9	Stein DEDLA Stein
			######################################

POWER CLASS MINIMUM PERFORM						
MINIMUM PERFORM			330	335	340	345
Tarana a second	AINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC: (POWER TOLERANCE +5W/-0W)	TONS, STC* (POW	/ER TOLERANCE +5W/-	(Mc		
POWER BY MIPPE	Pulte	[w]	330	335	340	345
Short Circuit Current	urrent ⁵ l _{ac}	[v]	10.41	10.47	10.52	10.58
Open Circuit Voltsge	V _{CC}	Σ	40.15	40.41	40.66	40.92
Current at MPP	an ₁	Ø	9.91	9.97	10.02	10.07
Voltage at MPP	V _{MPP}	Σ	33.29	33.62	33.94	34.25
Efficiency ⁴	6	[%]	≥18.4	×18.7	≥19.0	×19.3
MINIMUM PERFORM	MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT?	NDITIONS, NMO	2			
Power at MPP	Pares	[w]	247.0	250.7	254.5	258.2
E Short Circuit Current	urrent lac	[4]	8.39	8.43	8.48	8.52
. Open Circuit Voltage	V _{oc}	Σ	37.86	38.10	38.34	38.59
	oan)	Æ	7.80	7.84	7.89	7.93
Voltage at MPP	V _{MPP}	Σ	31.66	31.97	32.27	32.57
*Messurement tolerance	Wessurement tolerances Puer ±3%, Luci Voca ±5% at STC: 1000W/m², 25±2°C, AM 1.5G according to IEC 60904-3 + 9000W/m², NMOT, spectrum AM 1.5G	/m², 25±2°C, AM 1.	50 according to IEC 60904-	3 + 2800 W/m², NMOT, sp	sectrum AM 1.5G	
O CELL & DEBEODMANCE WARDOANTY	WICH WASSAUTY		BEBEOGRAPH	DEDUCADA OF ATLON (DOADLAND)	a-on	

At least 98% of not ing first year. There degradation per ye of nominal power u least 85% of nomin 25 years.	All data within mea ences. Full warrant with the warranty to	respective country
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cefficient of l _{so}	ь	[%/K]	+0.04	+0.04 Temperature Coefficient of V _{co}	g.	[%/K]
conflicient of Purp	>	[%/K]	-0.36	-0.36 Normal Module Operating Temperature	NMOT [°C]	[2]
		PROPERTI	ES FOR	PROPERTIES FOR SYSTEM DESIGN		
em Voltage	Vsvs	[v]	1000	1000 Sefety Class		
srse Current	la.	[A]	50	20 Fire Reting		
sed, Push/Pull		[Pe] 360	7997/00	3600/2667 Permitted Module Temperature		-40°C
I, Push / Pull		[Pa] 540	10/4000	on Continuous Duty		

-40°C-+85°C

PACKAGING INFORMATION

QUALIFICATIONS AND CERTIFICATES

STATE OF THE ART MODULE TECHNOLOGY
G.ANTUM DUO combines cutting edge cell separa
and innovative writing with Q.ANTUM Technology.

A RELIABLE INVESTMENT Inclusive 12-year product warranty and 25-year linear performance warranty?.

at complies with DIN EN 50380.	Œ	
ĕ		

Hanwha G CELLS GmbH Sonnenallee 17-21, 06766 B

THE IDEAL SOLUTION FOR:
Rooftop arrays on residential buildings

Engineered in Germany



CELLS

Engineered in Germany

Data Sheet Enphase Microinverters Region: AMERICAS

Microinverters 1Q 7 and 1Q 7+ Enphase

(Q Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years. The high-powered smart grid-ready.

Enphase IQ 7 Micro* and Enphase IQ 74 Micro*
dramatically simplify the installation process while
achieving the highest system efficiency. IQ 7+ Microinverters integrate with the Enphase IQ Envoy", Enphase IQ Battery", and the Enphase Enlighten" monitoring and analysis software. Part of the Enphase IQ System, the IQ 7 and

Easy to Install

- Lighweight and simple
 Faster installation with improved, lighter two-wire cabling
 Built-in rapic shutdown compliant (NEC 2014 & 2017)
- Productive and Reliable
- Optimized for high powered 60-cell and 72-cell* modulus
 More than a millior hours of leating
 Class II double-insulated enclosure
 UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency late frequency late frequency late frequency late frequency late at or respond to changing duf requirements.
 Configurable for verying grid printies.
 Morett GA Rule 27 (LL. TYT-SA).

To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	107-60-2-08		IQ7PLUS-72-2-US	-ns	
Commonly used module painings?	235 W - 350 W +	-12	235 W - 440 W+		
Module compatibility	60-cell PV modules only	ules only	60-cell and 72-	60-cell and 72-cell PV modules	
Maximum Input DC voltage	48.V		V 09		
Peak dower tracking voltage	27.4-37.4		27 V - 45 V		
Operating range	16 V-48 V		V08-V0F		
Min/Max start voltage	22 V / 48 V		22 V / 60 V		
Max DC short circuit current (module Isc)	15.A		15.A		
Overvoltage class DC port	=		=		
DC port backfeed current	DA		0.4		
PV array configuration	1 x 1 ungrounds AC side protect	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit.	al DC side protect A per branch circ.	tion required,	
OUTPUT DATA (AC)	10.7 Microinverter	ırtar	10.7+ Microinverter	verter	
Peak output power	250 VA		295 VA		
Maximum continuous output power Nominal (L-L) voltage/fange²	240 VA 240 V / 211.364 V	208 97	240 V/ 240 V/	208V/ 165-250 v	
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)	
Nominal frequency	60 Hz.		60 Hz		
Extended frequency range	47 - 68 Hz		47 - 68 Hz		
AC short circuit fault current over 3 cycles Maximum units per 20 A (L-L.) branch discut?	5.8 Arms 16 (240 VAC)	13 (208 VAC)	5.8 Arms 13 (240 VAC)	11 (208 VAC)	
Overvoltage class AC port			111		
AC port backfeed current	18 mA		18 mA		
Power factor setting			1.0		
Power factor (adjustable)	0.85 leading	0.85 lagging	0.85 leading	0.85 lagging	
EFFICIENCY	@240 V	@208 V	@240 V	@208 V	
Peak efficiency	\$ 9.7.5	97.6 %	975%	973.0	
CEC weighted efficiency	\$0.26	97.0 %	970%	97.0 %	
MECHANICAL DATA					
Ambient temperature range	-40°C to +65°C				
Relative humidity range	4%, to 100% (condensing)	ndensing)			
Connector type	MC4 (or Amphe	MC4 (or Amphenal H4 UTX with additional Q-DCD-5 adapter)	difformal Q-DCD-5	sdapter)	
Dimensions (HXWxD)	212 mm x 175 n	212 mm x 175 mm x 30.2 mm (without bracket)	out bracket)		
Weight	1.08 kg (2.38 lbs)	(8)			
Cooling	Natural convection - No fans	ion - No fans			
Approved for wet locations	Yes				
Pollution degree	PD3				
Endosure	Class II double-	Class II double-insulated, corrogion resistant polymeric enclosure	resistant polyme	ric enclosure	
Environmental category / UV exposure rating	NEMA Type 6 / autdoor	autdear			
Communication	Powertine Con	Power Line Communication (PLC)			
Montaring	Entighters Mans Both options re	Enlighten Manager and MyEnlighten moritoring options. Both options require installation of an Enphase IQ Ervoy.	n moritoring optic an Enphase (Q En	ins.	
Disconnecting means	The AC and DC disconnect regi	The AC and DC connectors have be disconnect required by NEC 690.	en evaluated and	The AC and DC connectors have been evaluated and approved by UI, for use as the lead-break disconnect required by NEC 690.	re load-break
Compliance	CA Fule 21 (UL 1741-SA) UL 62109-1, UL741/IEEE1547 CANCESA-C22.2 NO 1071-01 This product is UL Listed as P WEC-2017-section 69012 and and DC conductors, when inst	ACA Mela P. (U. 1741-56). JU. 62019-L. ULTHATIVEEETSHY, FCC Pent 'S Glees B., ICES-4003 Glees B. AANUSA-624-C. NO 1971-10. This product is U. Listed as P. W. Bapid Stut. flown fequiument and control This product is U. Listed as P. W. Bapid Stut. flown fequiument and control This product is U. Listed as P. W. Bapid Stut. flown and U.S. conductures, when matalled according manufactures's institution and D's conductures, when matalled according manufactures's institution.	Part 15 Class B, 1 aid Shut Down Eq. 1-2015 Rule 64-21 according manuf	And Mark Pt (UL) 1741 SAN LA ANVISAGE-SEZ SAN (1971 VI) They produce in the PA Band Stat. Down Equipment and conforms with NEC-2014 and They produce in UL Listed as PA Repaid Stat. Down Equipment and conforms with NEC-2014 and THE CED TR-estrict GROIT and EXZ-2018 Rules 46-45 Part Sell State Mark State Stat	VEC-2014 and tems, for AC

To learn more about Enphase offerings, visit enphase.com



Data Sheet Enphase Storage System

Encharge 10 Enphase

power rating. It provides backup capability and installers The Enphase Encharge 10" all-in-one AC-coupled storage system is reliable, smart, simple, and safe. It is comprised of three base Encharge 3" storage units, has a total usable energy capacity of 10.08 kWh and twelve can quickly design the right system size to meet the needs of both new and retrofit solar customers. embedded grid-forming microinverters with 3.84 kW



Reliable

- Proven high reliability IO Series Microinverters
 Ter-year limited warranty
 Three independent Enchlarge storage base units
 Twelve embedded (De KEAT Microinverters
 Passive cooling (no molining parts/fans)

- Smart

 Grid-forming capability for backup operation

 Remore activare and firmware upgrade

 Mobile app-based monitoring and control

 Support for self consumption

 Utility time of use (TOU) optimization

Simple

- Fully integrated AC battery system
 Quick and easy plug-and-play installation
 Interconnects with standard household AC wiring

Safe

- Cells safety tested
 Lithium iron phosphate (LFP) chemistry for maximum safety and longevity



To learn more about Enphase offerings, visit enphase.com

Enphase Encharge 10

MODEL NUMBER

To learn more about Enphase offerings, visit enphase.com

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IRONRIDGE

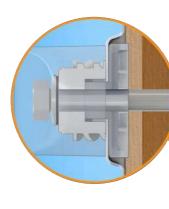
FlashFoot2

Installation Features

m

The Strongest Attachment in Solar

elevated and encapsulated, delivering redundant layers of protection against water intrusion. In addition, the twist-on Cap perfectly aligns the rail attachment with the lag bolt to maximize mechanical strength. IronRidge FlashFoot2 raises the bar in solar roof protection. The unique water seal design is both



Makes it easier to handle and insert under the roof shingles.

B Rounded Corners

O

Help to stiffen the flashing and prevent any bending or crinkling during installation.

C Reinforcement Ribs

4

Quickly align the flashing with chalk lines to find pilot holes.

A Alignment Markers

Three-Tier Water Seal

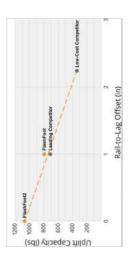
FlashFoot2's unique Cap design encapsulates the lag bot and rocks into place with a simple twist. The Cap helps FlashFoot2 deliver superior structural strength, by aligning the rail and lag bot in a concentric load path.

Twist-On Cap

FlashFoot2's seal architecture utilizes three layers of profesion, An elevated platform divers water eway, while a stack of rugged components raises the seal an entitle inch. The seal is than fully-encaptualed by the Cap. FlashFoot2 is the first solar attachment to pass the TAS-100 Wind-Driven Rain Test.



FlashFoot2 is the only product to align the rail and lag bolt. This concentric loading design results in a stronger attachment for the system.



Testing & Certification

Structural Certification

Designed and Certified for Compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings

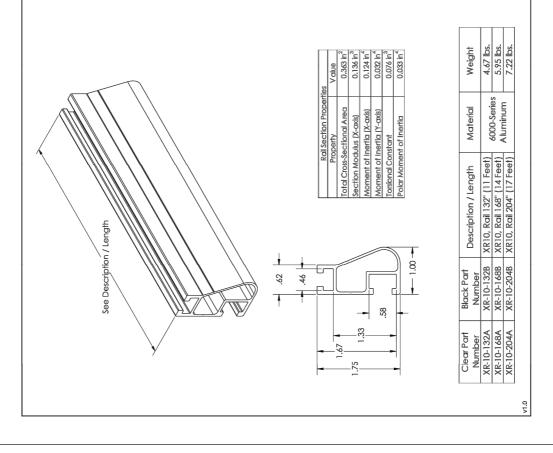
(CE

A custom-design lag bolt allows you to install FlashFoot2 with the same 7/16' socket size used on other Flush Mount System components. Single Socket Size

Water Sealing Tested to UL 441 Section 27 "Rain Test" and TAS 100-95 "Wind Driven Rain Test" by Intertek. Ratings applicable for composition shingle roofs having slopes between 2:12 and 12:12.

An elevated platform diverts water away from the water seal. Water-Shedding Design

Conforms to UL 2703 Mechanical and Bonding Requirements. See Flush Mount Install Manual for full ratings.





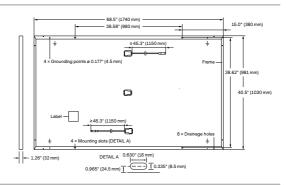
THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings





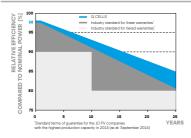


ELECTRICAL CHARACTERISTICS

POV	VER CLASS			330	335	340	345
MIN	IIMUM PERFORMANCE AT STANDARD	TEST CONDITIO	NS, STC1 (PO)	WER TOLERANCE +5 W / -0	W)		
	Power at MPP ¹	P _{MPP}	[W]	330	335	340	345
_	Short Circuit Current ¹	I _{sc}	[A]	10.41	10.47	10.52	10.58
nun	Open Circuit Voltage ¹	Voc	[V]	40.15	40.41	40.66	40.92
Mini	Current at MPP	I _{MPP}	[A]	9.91	9.97	10.02	10.07
2	Voltage at MPP	V_{MPP}	[V]	33.29	33.62	33.94	34.25
	Efficiency ¹	η	[%]	≥18.4	≥18.7	≥19.0	≥19.3
MIN	IIMUM PERFORMANCE AT NORMAL O	PERATING COND	DITIONS, NMC)T ²			
	Power at MPP	P _{MPP}	[W]	247.0	250.7	254.5	258.2
트	Short Circuit Current	I _{sc}	[A]	8.39	8.43	8.48	8.52
ij	Open Circuit Voltage	V _{oc}	[V]	37.86	38.10	38.34	38.59
Ē	Current at MPP	I _{MPP}	[A]	7.80	7.84	7.89	7.93
	Voltage at MPP	V _{MPP}	[V]	31.66	31.97	32.27	32.57

 $^{\perp}\text{Measurement tolerances P}_{\text{MPP}} \pm 3\%; |_{SC}; V_{\text{CC}} \pm 5\% \text{ at STC}: 1000 \text{W/m}^{2}, 25 \pm 2\text{°C}, \text{AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^{2}, \text{2$

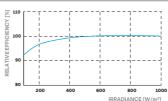
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% of nominal power up to

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}$ C, 1000 W/m²)

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.36	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{SYS}	[V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push / Pull ³	[lbs/ft ²]	75 (3600 Pa) / 55 (2667 Pa)	Permitted Module Temperature	-40°F up to +185°F
Max. Test Load, Push / Pull ³	[lbs/ft ²]	113 (5400 Pa) / 84 (4000 Pa)	on Continuous Duty	(-40°C up to +85°C)
³ See Installation Manual			-	

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

UL 61730, CE-compliant. IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells)







7	Ì		
® nd	l		
5	J		
m 77			

Horizontal	70.1 in	42.5 in
packaging	1780 mm	1080 mm

71.5 in

1815 mm

45.3 in

1150 mm



1208 mm

1220 mm

48.0 in



674 kg

1514 lbs

687 kg



pallets

pallets

28



pallets

pallets

24



modules

modules

32

32

Note: installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product. Q CELLS supplies solar modules in two different stacking methods, depending on the location of manufacture (modules are packed horizontally or vertically). You can find more detailed information in the document "Packaging and Transport Information". available from Q CELLS.

Vertical

packaging

Hanwha Q CELLS America Inc.



THE IDEAL SOLUTION FOR:

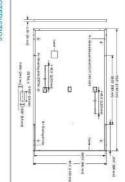


Engineered in Germany



MECHANICAL SPECIFICATION

Connector Staubi MC4; P68	Gabile 4 mm² Soler gable; (+) ≥45.3 in (£150 mm), (-) ≥45.3 in (£150 mm)	Junction Box 2,09-3,98 × 1,25-2,36 × 0,59-0,71 in (23-101 × 32-60 × 15-18 min), Pictection class IP67, with bypass clocks	Gell 6×20 monocrystaline Q.AMTUM adar hat cells	Frame Black and dad slutchum	Back Cover Composite Ilm	From Gover 0.13n (3.2 mm) the maly pie-stressed gass with anti-reflection technology.	All a contract contracts
	0mm), (-) ±45.3n (L150mm)	m (53-101 × 32-60 × th bypass diodes	derhetcels			ed glass	



3	BOMB OF 12 BOMBO			220	200	940	
I							
MIN	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC+ (POWER TOLERANCE +5W/-OW)	EST GONDITIO	NS, STC= (POWI	SK TOLERANDE +5W/ -0	W		
	Power at MPP*	Puse	Iwi	330	335	340	
	Short Grout Gurget!	ig.	E	10,41	10,47	10.52	
DAIR	Open Circuit Voltage*	Voc	PG.	40.15	40.42	40.86	
Nair	Current of MPP	186	E	166	9.97	10.02	
N	Voltage at MPP	Yun	3	33.29	33.62	33,94	
	Efficiency	7	[8]	218.4	21B.7	0.614	
MIN	MINIMUM SESSORMANCE AT NORMAL OPERATING CONDITIONS, NIMOTA	вити отправ	MONS, NMOT				
	Powers MEP	Pun	[w]	247.0	2507	254.5	
im	Short Direuit Current	lso.	E	8.39	843	8.48	
slim	Open Circuit Vollage	Vac	3	37.86	3810	38,34	
Mi	Current at MPP	1484	æ	7.80	7.84	7.89	
l,	Voltage at MPE	Y harm	3	30.66	30,97	32.27	
The same	Measurement televances P _{art} ± 3%, _{bo.} 1 ₅₀₀ ± 5% at \$10:1000 W/m², 25± 2°0, AM 1.5 according to £00.6004-3 = 2800 W/m², NMOT, spectrum AM 1.5	:STC:1000W/m²	25±2°C, AM 15	according to EC 60904-3-8	BOOW/ITP, NWOT, spectru	TAMIE	
Commission of the Commission o							

all data within measurement tube and-es. Full warrants in accordance with the warrant terms of the GCELLS seles organization of your espective accurate. At learn 98% of nominal power during first year. These her may 0.54% day dating year. At learn 93.1% of nominal power up to 1.0 years. At least 85% of nominal power up to 1.0 years. At least 85% of nominal power up to 5.5 years.

Typical module performance under the irradiance conditions in competition to STC conditions (26 °C, 1000 W/m²).

PROPERTIES FOR SYSTEM DESIGN

[54] I LOWIN

-0.27 109±5.4(48±8°C)

Temperature Coefficient of I₃₂
Temperature Coefficient of P₃₁₁

Maximum System Voltage Vips	Z	1000 (EC) /1000 (UL)	Salety Class	11
Maximum Series Fuse Rating	M DOJ	20	Fire Rading based on AMSI/ UL 1703	C(IED)/TYPE2 (UL)
Mex. Design Load, Push / Pulls	lips/rel	(euzadz) so i fedobatkaz	Permitted Module Temperature	-40°F up to +185°F
Max Test Load, Push/Pull*	[ibs/ff]	113 (5400Pa)/84 (4000Pa)	on Continuous Duty	(-40°Cup to +85°C)
See Installation Manual			,	

QUALIFICATIONS AND CERTIFICATES

Application dissal (LU.S. Friendthio. 3.898.215/jobin cells)	
98.215 (spanoels)	add the
98.215 (spanoels)	-
730,2016	STORY COMPANY OF THE PROPERTY OF THE PARK







71.5×45.8×48.0in [181.5×

PACKAGING INFORMATION

Note: Installation instructions must be folio of this product. disperating marked or contectiour technical service department/or further information on approved installation and use

Harvaha G CELLS America Inc. 400 Stechum Center Dine, Subs 1400, Invine, CA 92518, USA | TEL +1,949,74859 99 | EMMIL Ingliny@usg-cell com | WEB www.g-cells.te



City of Los Angeles, Department of Building & Safety APPROVED PLANS

This set of plans are not approval for construction until the required permit fees are paid
 and the permit is issued.
 No inspection can be scheduled until the permit fees have been paid.

By: DANG, ANTHONY Application No./Permit No.: 21141-10002-20579 Date: 02/23/2022

the highest system efficiency. lly simplify the installation process while Q 7 Micro" and Enphase IQ 7+ Micro" owered smart grid-ready

Enphase IQ System, the IQ 7 and

enabling Enphase to provide an industry-leading undergo over a million hours of power-on testing. standards set forth by previous generations and IQ Series Microinverters extend the reliability Enlighten" monitoring and analysis software. IQ Envoy", Enphase IQ Battery", and the Enphase IQ 7+ Microinverters integrate with the Enphase warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compilant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules More than a million hours of testing
- Class il double-insulated enclosure
- UL listed

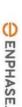
Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Meets CA Rule 21 (UL 1741-SA) Configurable for varying grid profiles

*The IQ 7+ Micro is required to support 72-cell middules

9

To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

ule pairings"	235 W - 350 W +		235 W - 440 W +	
	60-cell BV modules only	se onlu	60 call and 70	60-call and 73-cell DV modules
Maximum input BC voltage 4	48 V		60 V	
W	27 V-37 V		27 V - 45 V	
Operating range tv	16 V - 48 V		16 V - 60 V	
	22 V / 48 V		22 V / 60 V	
urrent (module lsc)	15 A		15 A	
			=	
ent	Þ		0 A	
PV array configuration 1 A	x 1 ungrounded C side protectio	array; No addition n requires max 20	1 x 1 ungrounded array: No additional DC side protection required. AC side protection requires max 20A per branch circuit	tion required;
OUTPUT DATA (AC)	1Q 7 Microinverter	ter	IQ 7+ Microinverter	verter
Peak output power 2	250 VA		295 VA	
us output power	240 VA		290 VA	
	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current 1	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency 6	2H 09		5H 08	
Extended frequency range 4	47 - 68 Hz		47 - 68 Hz	
nt over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit* 14	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
			=	
TRIM	3		3 3	
Power factor (adjustable)	0.7 leading 0.7	0.7 lagging	0.7 leading 0	0.7 lagging
	- 1	@208 V	- 1	@208.V
Peak CEC efficiency 9	97.6%	97.6 %	97.5%	973%
MECHANICAL DATA	2000	200	27.0 4	21.0 %
range -	40°C to +65°C			
& IQ7PLUS-72:2-US)	4% to 100% (condensing) MC4 (or Amphenol H4 U1	ensing) 51 H4 UTX with ad	ditional Q-DCC-5	adapter)
Cannector type (197-60-B-US & 197PLUS-72-B-US) Fig. 1	Friends PV2 (MC4 intermateable) Adaptors for modules with MC4 c -PV2 to MC4: order ECA-S20-S22 -PV2 to UTX. order ECA-S20-S25	Friends PV2 (MC4 intermateable). Adaptors for modules with MC4 or UTX connectors - PV2 to MC4: order ECA-820-822 - PV2 to UTX: order ECA-820-825	UTX connectors.	
Dimensions (WxHxD) 2 Weight 1	212 mm x 175 mr 1.08 kg (2.38 lbs)	212 mm x 175 mm x 30.2 mm (without bracket) 1.08 kg (2.38 lbs)	out bracket)	
Cooling	Natural convection - No fans	n - No fans		
Approved for wet locations You	Yes			
Pollution degree P	PD3			
	lass II double-in	sulated, corrosion	Class II double-insulated, corrosion resistant polymeric enclosure	ric enclosure
ital category / UV exposure rating	NEMA Type o / outdoor	MOOR		
Communication P.	Power Line Communication (PLC)	nunication (PLC)		
	niighten Manag	ar and MyEnlighte	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IO Envoy.	ons.
Disconnecting means T	The AC and DC connectors have disconnect required by NEC 690	nnectors have be ed by NEC 690.	en evaluated and	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.
Compliance C	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547 CAN/CSA-C22 2 NO. 1071-01 This product is UL Listed 88 F	'41-SA) 41/IEEE1547, FCC VO. 1071-01 LListed as PV Rag	Part 15 Class B, I	AD ARIJUE 27 (UL T741-SA). UL 62109-1,UL1741/IEEET54J, FCC Part 15 Class B, ICES-0003 Class B, CANUCSA-0212 2 NO. 1071-07 ITHIS product is UL lated as PV Rapid Shut Down Equipment and conforms with NEC-02014 and NEC 00171 control of 10 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10

1. No enforced DC/AC rank, See the compatibility exicution is drights/desphase/com/den-is/support/module-compatibility. 2. Normal-violage agrees pash exciteded beyond normal if required by the utility. 3. Limits may vary field in to be all requirements to define the number of infectionwishes per branch in your area.

To learn more about Enphase offerings, visit enphase.com

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CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date

20170112-E486080 E486080-20160830 2017-JANUARY-12

representative samples of This is to certify that

ENPHASE ENERGY INC

Issued to:

Petaluma CA 94954-6515 1420 N McDowell Blvd

DISTRIBUTED GENERATION WIRING SYSTEMS AND HARNESSES

Photovoltaic Wiring Harness, Models 840-00387 or Q-12-10-240, 840-00388 or Q-12-17-240, 840-00389 or Q-12-20-200, 840-00800 or Q-DCC-7, 840-00386 or Q-DCC-5, 840-00385 or Q-DCC-2.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL Subject 9703 - Outline of Investigation for Distributed Generation Wiring Harnesses

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Page 1 of 1

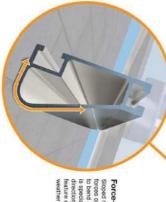


XR Rail Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

of installation time. penetrations and the amount reducing the number of roof requires fewer roof attachments Their superior spanning capability transfer loads into the building structure. against buckling and safely and efficiently these results. They resist uplift, protect XR Rails are the structural backbone preventing



Force-Stabilizing Curve

is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime. Sloped roots generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails

Compatible with Flat & Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof

IronRidge offers a range of tilt leg options for flat roof mounting applications a more attractive appearance

All XR Rails are made of marine-grade aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing Corrosion-Resistant Materials

XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10 is a sleek, low-profile mounting rail, perfectly matched to regions without snow. It achieves 6 foot spans, while also staying light and economical.

- 6' spanning capability
 Moderate load capability
 Clear anodized thish
 Internal splices available



XF100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans.



XR1000

XR1000 is a heavyweight among solar mounting rais. It's built to handle extreme climates and spans 12 feet or more for commercial applications.

12' spanning capability
 Extreme load capability
 Clear anodized finish
 Internal spiloes available

8' spanning capability
Heavy load capability
Clear & black anodized finish
Internal splices available

Rail Selection

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronFlidge.com for detailed span tables and certifications.

		7	Dail Span	nam.		
Snow (PSF)	Snow (PSF) Wind (MPH)		0;			
	100					
N.	120					
MOIDE	140	XR10	XR100		XR1000	
	160					
	100					
3	120					
10-20	140					
	160					
ŝ	100					
o	160					
à	100					
đ	160					
50-70	160					
80-90	160					



25800 Commercentre Drive Lake Forest, CA 92630 USA

Test Verification of Conformity

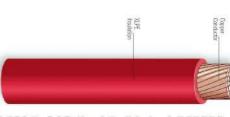
in the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address:	IronRidge, Inc. 1495 Zephyr Ave. Hayward, CA 94544		
Product Description:	XR Rails with Integrated Grounding	ling	
Ratings & Principle Characteristics:	Fire Class Resistance Reting: Class A for Steep Slope Flush-Mount (symmetrical) Applicati Type 2, listed Photovoltaic Module. Class A for Low Slope Flush-Mount and Tilt-Mount (symmetric Applications when using Type 1, listed Photovoltaic Module).	Flush-Mount (sy taic Module. lush-Mount and g Type 1, Listed I	is Resistance Rating. Class A for Steep Slope Flush-Mount (symmetrical) Applications when using Type 1 and Type 2, Listed Photovoltaic Module. Class A for Low Slope Flush-Mount and Tilt-Mount (symmetrical and asymmetrical) Applications when using Type 1, Listed Photovoltaic Module.
Models:	51-61GD-005, 51-61GD-005B, 51-5000-001, and 51-65-001	1-5000-001, and	51-65-001
Brand Name: Relevant Standards:	N/A UL Subject 2703 Outline of Inve for Flat-Plate Photovoltaic Mod	stigation for Rad ules and Panels,	N/A UI. Subject 2703 Outline of Investigation for Rack Mounting Systems and Clamping Devices for Flat-Plate Photovoltaic Modules and Panels, Issue Number: 1, October 4, 2010
Verification Issuing Office:	Intertek Testing Services NA, Inc. 25800 Commercentre Dr.	P	
Date of Tests: Test Report Number(s):	Lake Forest, CA 92630 08/27/2014 to 01/07/2015 1015411321AX-002		
This verification is part of the imply product certification.	full test report(s) and should be	read in conjunct	This verification is part of the full test report(s) and should be read in conjunction with them. This report does not automatically imply product certification.
Completed by: Amar Kacel Title: PV Engineer	ig ©	Reviewed by: Title:	Andrew Koretoff Reviewer
Signature:	1	Signature:	PARONELL
Date: 01/16/2015	15	Date:	01/16/2015

This kerifornion signifies exclusive use of intertexts cleration of provided jurision to the agreement between futerity and to Clerk I intertexts responsibility and lockity are foreign of the foreign contributes of the agreement intertext essenses in including or persons, other from to the Clerk in accidinate with the suprement. For any lock expenses are dismagal contributed by the use of the intertext internet or only in feril clerk in out and including to personal or distribution of the feril product or any lock intertext intertext intertext intertext in out of the feril product or service must first be appropriate in writing by whereas. The observations and stack inspection includes reflection to the intertext intertext in the one beam under an intertext certification program.

GFT-OP-118 (24-MAR-2014)

TYPE PHOTOVOLTAIC/RHH/RHW-2 COPPER CONDUCTOR 600V AND 1000V/2000V



ENGINEERING SPECIFICATIONS:

Underwriters: Laboratories: Standards: UL-4703, UL-854, UL-44
UL-1666-1-44/EE1-1202, (20),000. Bruthy Terms: Test (1/07 AWS and larger)
(EA 1-724-502), (27),000 Bruthy Terms: Test
(EBA), WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658. Standards:



CONSTRUCTION:

Conductors:

Stranded conductors, uncoated copper per ASTM-8787 and ASTM-88

insulation:

Gross-Inked polyethylene (XLPE) insulation per UL-854, UL-4703 and UL-44

Applications:

Type Photovoliaic copier conductors are suitable for outdoor rooting applications without conduit and for use in conduits and razeways instelled underground in conduit in well orations, and where condensation and mosture accountations writin the conduit to not exceed 90°C, Applications requiring their build is permitted for Type Photovoliaic per U.-854. Applications requiring type Photovoliaic conductor, transportances shall not exceed 90°C in well or dry locations.

Available in 60019 and 1000/200004. All cables comply with LT's VM-1 (Vertical Wire) Hame feet, Insulation compounds are rated for flame and sunlight-resistance in all sizes and colors. Proteotratic conductors of 1.00 frough 1000 KCMIL are rated for CL rate. Scapundial from makings becaused every five on ansatzer rode only for 1.4WG through 1000 KCMIL unless otherwise specified. RSHS compilant. Electrity at Low Temperature Test. Carries -40°C rating.

Type Photovoltaic/RHH/RHW-2 Copper Conductor 600V and 1000V/2000V

	2 F	umber of	F	nsulation bickness		Outsk	Dataide Diameter	-	1	empocity	I I	pproximate met meight	Staw	Standard Packaging (II)
	1		E	ALVE (III)	1953	4004	10004	/ 20004	À	(Su	Î	as/ Luou rt)		
	600V	M0002	4009	20004	(ame)	ĵ	ì	(BR)	V000	7000 V000	A009	W W		A808
14	19	19	0.000	0.075	4.89	0.193	5.61	0.221	165	25+	24	38	500	500' 1000' 2500' reds
12	76	19	0.000	0.075	5.37	0.212	6.05	0,238	92	307	ಚ	38	500	500° 1000° 2500° reeks
10	15	19	0.060	0.075	5.99	0.236	6.80	0.260	4	40	47	52		500' 2500' reels
00	¥	7	0.075	0.085	7.52	0.296	7.95	0.313	55	83	74	78	500	500' 1000' 2500' 5000' reeks
¢,	7.	7	0.075	0.005	8.48	0.334	8.86	0.349	75	75	108	113	500	1000' 2500' 5000' reels
du	7	'n	0.075	0.085	9.70	0.382	10.06	0.396	95	88	161	166	500) 1000/ 2500' 5000' reels
ça.	7	7	0.075	0.085	10.41	0.410	10.77	0.424	110	110	197	203	500	
2	7+	7	0.075	0.085	11.23	0.442	11.58	0.456	130	130	243	249	500	1000' 2500' 5000'
-	19	19	0.095	0.105	13.16	0,518	13.49	0.531	150	35	313	320	500	1000' 2500' 5000
0.1	35	19	0.095	0.105	13.97	0,550	14.48	0.570	170	170	390	989	500	1000' 2500' 5000' reels
2/0	19		0.095	0.105	15.09	0.594	15.60	0.614	195	密	476	484	500	5000
3/0	7		0.095	0.106	16.36	0.644	16.87	0.664	225	225	590	500	500	1000' 2500' 5000' reels
8	15		0.095	0.106	17.78	0.700	18.29	0.720	260	260	732	742	500	1000' 2500' 5000' reels
250	37	37	0.110	0.120	19.35	0,762	19.86	0.782	290	290	873	884	500	1000° 2500° 4000° Reels 500°
300	37		0.110	0.120	20.67	0.814	21.18	0.834	82	320	1035	1047	***	500' 1000' 3500' Reeds
350	33	37	0 110	0.120	21 87	0.961	22.38	0.881	0550	350	1198	1210		500' 1000' 3000' Reels
400	Æ	37	0.110	0.120	22.99	0.905	23.50	0.925	380	380	1358	1371		500' 1000' 3000' Reeks
500	37	37	0.110	0.120	25.04	0.986	25.55	1.006	430	430	1680	1694	ENI-	500' 1000' 2500' Reels
900	61	67	0.125	0.135	29.03	1.143	29.54	1.163	475	475	2057	2073		500' 1000' 2000' Reels
750	62	61	0.125	0.135	31.70	1.248	3221	1.268	585	535	2508	2525	cn cn	500' 1000' 1500' Reeks
8	63	61	0.125	0.135	35.61	1,402	36.12	433	616	615	3303	3322		500' 1000' Reeks

^{*8} AWG - 2 AWG: 19/w is evallable upon request.
**Alloyable ampaidtes per NEC 310.15/B)(15) for 90°C. The overcurrent protection amperages, consult NEC 240.4D,

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Copper Lay-In Ground Lug Direct Burial

RoHS **F**









CGBL

Lay-in feature

Manufactured from high strength copper

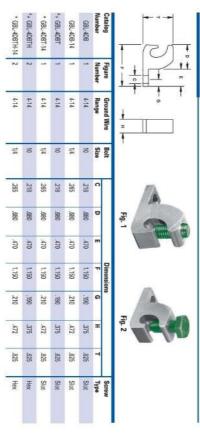
Stainless steel hardware

Provides ease of installation of continuous loop

Suitable for direct burial and for use with copper

Resists oxidation and corrosion in earth or concrete





noted otherwise, are American Wire Gauge (AWG)

All wire stees, unless noted otherwise, are American Wire Gauge (AWO
Tissed to U.S. U.F. File 23440)
* Tiniciales fin plating
+ GBL-4DBT and GBL-4DBTH are UL2703 Listed UL E354420 Vol. 2
Optional MH Series mounting hardware kits available, consult ILSCO

Z

LSCO Torque Index

TIGHTENING TORQUE VALUES FOR

ILSCO MECHANICAL SCREW CONNECTORS

AWG. OR CIRCULAR	TIGHTENING TORQUE IN INCH POUNDS EXTERNAL DR	JE IN INCH POUNDS EXTERNAL DRIVE
MILL SIZE	SCREW DRIVER	WRENCH
14	35	
12	35	
10	35	
8	40	
6	5	
4	45	
2	50	
-	50	
1/0	50	
2/0	50	
3/0		
4/0		
250		325
350		
500		
600		
700		
750		
800		
1000		

ILSCO SOCKETHEAD SCREW CONNECTORS TIGHTENING TORQUE VALUES FOR

910	1/2	3/8	5/16	1/4	7/32	3/16	5/32	1/8	INTERNAL SOCKET SIZE ACROSS FLATS INCHES
600	500	375	275	200	150	120	100	45	TIGHTENING TORQUE IN INCH POUNDS

Please reference the instruction sheet included with your connector for specific torque values.



ILSCO

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TABLE I TIGHTENING TORQUES

Table I shows the recommended tightening torques for silicon bronze, stainless steel, gaivanized steel and aluminum alloy lardware. The shaded portion represents torques presently recommended by NEMA-CC1-1884 specification.

		Nominal Torque	Values	
Bolt 1	Silicon Galvanized or	Bronze, Stainless Steel	Alumin (Lubr	um Alloy icated)
Diameter	FtLbs.	Inch-Lbs.	FtLbs.	Inch-L
%+18	15	180	£	10
%-16	20	240	14	168
1/-13	40	480	25	300
11-%	OF 051	660	đ	480
Vi-10	80	960	70	840

For optimum efficiency, it is necessary that the correct bott, nut and washer combination be used with the correct combination of conductor malerials. Table it shows acceptable methods of joining different combinations of bus bar. Where different combinations of bus bar. Where different combinations of metals are being joined, a follow-up device such as a conical pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum. If both bars are hard drawn, large flat washers will suffice regardless of the both materials.

Other considerations which should be taken into account when selecting hardware are corrosion and vibration. For example, if severe composion is anticipated, non-corrosive materials such as stainless steel or silicon bronze, should be selected in preference to galvanized steel. If vibration is anticipated, the use of locking washers should be considered.



	METHODS OF	METHODS OF JOINING BUS BARS	ARS		
If "A" Bar is	Copper	Aluminum	Steel	Aluminum	Steel
and If "B" Bar is	Copper	Capper	Copper	Aluminum	Aluminum
Hard Drawn Bus such as aluminum alloy. — Bolt	(1) Silicon Bronze	(1) Silicon Bronze	(1) Silicon Bronze	(1) Atuminum	(1) Aluminum
	(2) Stainless Steel	(2) Aluminum (3) Stainless Steel	(2) Stainless Steel	(2) Stainless Steel	(2) Stainless Steel
Nut — Flat Washer Split or tooth lock washer				(3) Silicon Bronze, Plated	
Soft Drawn Bus such as EC-H13 Aluminum,	(1) Silicon Bronze	(1) Sillcon Bronze	(1) Silicon Bronze	(1) Aluminum	(1) Aluminum
Large Bolt	(2) Stainless Steel	(2) Aluminum	(2) Stainless Steel	(2) Stainless Steel	(2) Stainless Steel
		(3) Stainless Steel		(3) Silicon Bronze Plated	(3) Conical Pressure Washer
		(4) Conical		(4) Conical	Plated or
Nut Large		Pressure		Pressure	Stainless
The state of the s		Washer		Washer	oleca
		Plated or		Plated or	
1		Stainless		Stainless	

(1) Danokes proferred hardware usage Note: Contact sealant recommended between aluminum to aluminum and aluminum to copper commentions, universe other protective measures are laken.

Bar Connections

The tang of a compression or a mechanical connector is a bus bar, which connects to another bus bar. If you remember the rule about wire bushing and using joint compound with bare (unplated) aluminum, you cannot go wrong. Plated parts should be cleaned with a solvent if they are dirty, but never abracke or otherwise disturb the plating! Flg. 3 shows a typical bar connection and the type of hardware used.

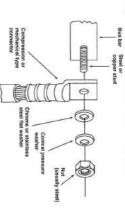


Figure 3. Contact surfaces must be clean. Use a joint compound with bare aluminum. Conical pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum.



Enphase Encharge 10

power rating. It provides backup capability and installers a total usable energy capacity of 10.08 kWh and twelve comprised of three base Encharge 3" storage units, has needs of both new and retrofit solar customers. can quickly design the right system size to meet the embedded grid-forming microinverters with 3.84 kW storage system is reliable, smart, simple, and safe. It is The Enphase Encharge 10" all-in-one AC-coupled



Reliable

- Proven high reliability IQ Series Microinverters
- Ten-year limited warranty
- Three independent Encharge storage base units
 Twelve embedded IQ 8X-BAT Microinverters
- Passive cooling (no moving parts/fans)

Smart

- Grid-forming capability for backup operation
- Remote software and firmware upgrade
- Support for self consumption Mobile app-based monitoring and control
- Utility time of use (TOU) optimization

Simple

- Fully integrated AC battery system
- Quick and easy plug-and-play installation
 Interconnects with standard household AC wiring

- Cells safety tested
 Lithium iron phosphate (LFP) chemistry for maximum safety and longevity



Enphase Encharge 10

MODEL NUMBER	
ENCHARGE-10-1P-NA	Enchange 10 battery storage system with integrated Enphase Microinverters and battery management unit (BMU). Includes: - Three Enchange 3.36 kWh base units (B3-A01-US001-1-3). - One Enchange 10 cover kit with cover, wall mounting bracket, watertight conduit hubs, and interconnect kit for wind pathween batteries (B10-C-1030-).
ACCESSORIES	
ENCHARGE-HNDL-R1	One set of Encharge base unit installation handles
OUTPUT (AC)	@ 240 VAC'
Rated (continuous) output power*	3.84 KVA
Peak output power	5.7 kVA (10 seconds)
Nominal voltage / range	240 / 211 - 264 VAC
Nominal frequency / range	60 / 57 - 61 Hz
Rated output current	16.A
Peak output current	24.6A (10 seconds)
Power factor (adjustable)	0.85 jeading 0.85 lagging
Maximum units per 20 A branch circuit	1 unit (single phase)
Interconnection	Single-phase
Maximum AC short circuit fault current over 3 cycles	
Round trip efficiency ¹	89%
BATTERY	
Total capacity	10.5 kWh
Usable capacity	10.08 kWh
Round trip efficiency	90%
Nominal DC voltage	67.2 V
Maximum DC voltage	73.5 V
Ambient operating temperature range	-75° C to 55° C (5° F to 731° F) non-condensing
Optimum operating temperature range	0° C to 30° C (32° F to 86° F)
Chemistry	Lithium iron phosphate (LFP)
MECHANICAL DATA	
Dimensions (WxHxD)	1070 mm x 564 mm x 319 mm (42.13 in x 26.14 in x 12.56 in)
Weight	Three individual $144.2 \mathrm{kg}$ (97.4 lbs) base units plus 21.1 kg (48.7 lbs) cover and mounting bracket; total 154.7 kg (341 lbs)
Enclosure	Outdoor - NEMA type 3R
IQ 8X-BAT microinverter enclosure	NEMA type 6
Cooling	Natural convection - No fans
Attitude	Up to 2500 meters (8200 feet)
Mounting	Wallmount
FEATURES AND COMPLIANCE	
Compatibility	Compatible with grid-flied PV systems. Compatible with Enphase IQ Series Micros, Enphase Enpower, and Enphase IQ Erwoy for backup operation.
Communication	Wireless 2.4 GHz
Services	Backup, self-consumption, TOU, Demand Charge, NEM integrity
Monitoring	Enlighten Manager and MyEnlighten monitoring options; API integration
Compliance	UL 950, UN 38.3, UL 9540A, UL 1992, UL 991, NEMA Type 3R, AC156 EMI-07-CFR, Part 15, Class B, ICES 003 Cell Module: UL 1973, UN 38.3
LIMITED WARRANTY	
	CONTRACTOR OF TO LOCAL OF TOTAL PROPERTY OF THE PROPERTY OF TH

2. AC to Battery to AC at 50% power rating. 3. Whichever occurs first. Restrictions apply.

To learn more about Enphase offerings, visit enphase.com

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ENPHASE.

of Emphasis Energy, Nic. Data subject to change. 2020-05-19



Enpower Enphase

capabilities of PV and storage installations by and solar PV. It provides microgrid interconnection residential applications. providing a consistent, pre-wired solution for a single enclosure and streamlines grid independent failure. It consolidates interconnection equipment into from grid power to backup power in the event of a grid and seamlessly transitioning the home energy system device (MID) functionality by automatically detecting home to grid power, the Encharge storage system, The Enphase Enpower" smart switch connects the



Reliable

- Durable NEMA type 3R enclosure
- Ten-year limited warranty

Smart

- Controls safe connectivity to the grid
- Automatically detects grid outages
- Provides seamless transition to backup

Simple

- Connects to the load or service equipment' side of the main load panel
- Centered mounting brackets support single stud mounting
- Supports conduit entry from the bottom, bottom left side, and bottom right side
- Supports whole home and partial home backup and subpanel backup
- Up to 200A main breaker support
- Includes neutral-forming transformer for split phase 120/240V backup operation

Enperwer is not suitable for use as service Canada.

To learn more about Enphase offerings, visit enphase.com



Enphase Enpower

MODEL NUMBER		
EP200G101-M240US00	Exphase Expower smart switch with neutral-forming transformer (NFT), Microgrid Interconnect Device (MID), breakers, and screws Streamines prici-independent capabilities of FV and storage installations	NFT), Microgrid Interconnect Devic
ACCESSORIES and REPLACEMENT PARTS	3	
XA-E3-PCBA-ENS	Replacement Enpower controller printed circuit board	
Circuit breakers (as needed)\-= BRK-100A-2P-240V	Not included, must order separately: • Main breaker, 2 pole, 100A, 25KAIC, CSR2100N or CSR2100	
BRK-125A-2P-240V	 Main breaker, 2 pole, 123A, 25KAIC, CSR2125N Main breaker, 2 pole, 150A, 25KAIC, CSR2150N 	
BRK-175A-2P-240V BRK-200A-2P-240V	 Main breaker, 2 pole, 175A, 25kA/C, CSR2175N Main breaker, 2 pole, 2004, 25kA/C, CSR2200N 	
BRK-20A-2P-240V-B	· Circuit breaker, 2 pole, 20A, 10kAIC, BR220B	
BRK-40A-2P-240V	 Circuit breaker, 2 pole, 30A, 10kAIC, BR230B Circuit breaker, 2 pole, 40A, 10kAIC, BR240B 	
BRK-60A-2P-240V BRK-80A-2P-240V	 Circuit breaker, 2 pole, 60A, 10kAiC, BR250 Circuit breaker, 2 pole, 80A, 10kAiC, BR250 	
EP200G-HNDL-RT	Enpower Instaliation handle kit (order separately)	
ELECTRICAL SPECIFICATIONS		
Assembly rating	Continuous operation at 100% of its rating	
Nominal voltage / range (L-L)	240 VAC / 100-310 VAC	
Voltage measurement accuracy	±1% V nominal (±1.2V L-N and ±2.4V L-L)	
Nominal frequency / range	60 HZ / 56 - 63 HZ	
Frequency measurement accuracy	±0.1 Hz	
Maximum continuous current rating	160A	
Maximum output overcurrent protection device	200A	
Maximum input overcurrent protection device	200A	
Maximum overcurrent protection device rating for storage branch circuit ⁴	80A	
Maximum overcurrent protection device rating for PV combiner branch circuit*	80A	
Neutral Forming Transformer (NFT)	Breaker rating (pre-installed): 40A between L1 and Neutral; 40A between L2 and Neutral continuous rated power: 35,00VA Continuous rated power: 35,00VA Heavinum continuous unitaliance purrent: 30A @ 122V Heavinum continuous unitaliance purrent: 30A @ 122V Heavinum continuous unitaliance purrent: 40A @ 122V Heavinum continuous unitaliance purrent: 40A @ 120V for 30 seconds Peak trated power: 88,00VA for 30 seconds Peak trated power: 88,00VA for 30 seconds	setween L2 and Neutral
MECHANICAL DATA		
Dimensions (WxHxD)	50cm x 91.5cm x 24.6cm (19.7 in x 36 in x 9.7 in)	
Weight	38.5 kg (85 lbs)	
Ambient temperature range	-40° C to +50° C (-40° F to 122° F)	
Cooling	Natural convection, plus heat shield	
Enclosure environmental rating	Outdoor, NEMA type 3R; polycarbonate construction	
Amiude	to 2500 meters (8200 feet)	
WIRE SIZES		
Connections	Main lugb, backup load lugb, and CSR breakers If Breakers (wire provided) Accombiner lug. Enchange lugs, and generator (reserved for Aure use) lugs Natra (large lugs) Natra (large lugs)	CU/AL: 2 AWG - 300 KCMIL 6 AWG 14 AWG - 2 AWG CU/AL: 6 AWG - 300 KCMIL
Neutral and ground bars	Large holes (5/16-24 UNF) Small holes (10-32 UNF)	14 AWG - 1/0 AWG 14 AWG - 6 AWG
COMPLIANCE		
Compliance	UL 1741, UL 1741 SA, UL1998, UL869A), UL674, UL5081, UL50E) CSA 22 2 No. 1071, 47 CFR, Part 15, Class B, ICES 003, AC156	
The second section of the second section of the second section second second section second s		

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^{2.} Compatible with 0RHD X125 Hold-Owen Kit to comply with 2017 RTC 710.155 for back-fed circuit breakers. If The IAOC of Exposer is the earne so the IAOC of the noish breaker being invalided as lifeted. A Not included, for siller must proved up operative side possip prior included. In the IAOC of the State of the IAOC of the

To learn more about Enphase offerings, visit enphase.com

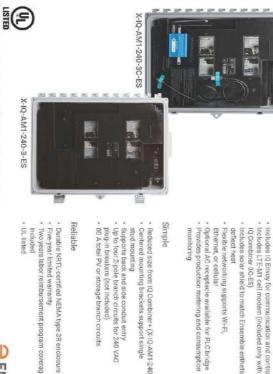
Data Sheet Enphase Networking

Enphase IQ Combiner 3-ES/3C-ES

X-IQ-AM1-240-3C-ES X-IQ-AM1-240-3-ES

The Enphase IQ Combiner 3-ES/3C-ES" with

pre-wired solution for residential applications. Enphase IQ Envoy" and integrated LTE-M1 cel Eaton BR series busbar assembly. It offers up to four 2-pole input circuits and storage installations by providing a consistent modem (included only with IQ Combiner 3Cinto a single enclosure and streamlines PV and ES) consolidates interconnection equipment



- Includes IQ Envey for communication and control includes ITE-MT cell modern (included only with IQ combiner 30-EE)

 Includes solar shield to match Ensemble esthetics and includes solar shield to match Ensemble esthetics.
- deflect heat
- Flexible networking supports Wi-Fi, Ethernet, or cellular

Simple

- Reduced size from IQ Combiner+ (X-IQ-AM1-240-2)
 Centered mounting brackers support single stud mounting
 Supports back and side conduit entry
 Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
 80 A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
 Free-year limited warranty
 Two years labor reimbursement program coverage included
 UL listed

X-IQ-AM1-240-3-ES



To learn more about Enphase offerings, visit enphase.com

Enphase IQ Combiner 3-ES / 3C-ES

MODEL NUMBER	
(Q Combiner 3-ES (X-IQ-AM1-240-3-ES)	(Q Combhes 3-E5 with Enphase IQ Ervey printed circuit board for integrated revenue grade PV production metering (AMS CT2.20 +/. 0.5%) and contamption monitoring (4-£.25%) includes a silver production metring (AMS CT2.20 +/. 0.5%) and contamption monitoring (4-£.25%) includes a silver production metring (AMS CT2.20 +/. 0.5%) and contamption monitoring (4-£.25%) includes a silver production metring the silver silver of the contamption of the contam
IQ Combiner 3C-ES (X-IQ-AM1-240-3C-ES)	(Q Combiner 3C-ES with Exphase (Q Envoy printed circuit board for Integrated revenue grade PV production metering (ANSI C12 20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes Exphases Mobile Comerce LTE-AH (CELL MODEMAM) a plug-and-ploy in dustrial-grade cell modern for systems up to 60 microinverters (Available in the US, Danada, Mexico, Puerto Rico, and the US Wighin bands, where there is adequate cellular services in the installation area). Includes a silver so despective of the control of province from a system of the discount of the US.
ACCESSORIES and REPLACEMENT PARTS	(not included, order separately)
Ensemble Communications Kit (COMMS-CELLMODEM-M1)	Includes COMMS-KIT-01 and CELLMODEM-M1 with 5-year data plan for Ensemble sites
Circuit Breakers BRK-10A-2-240	Supports Eston BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eston BR210
BRK-15A-2-240 BRK-20A-2P-240	Circuit breaker, 2 pole, 20A, Eston BR215 Circuit breaker, 2 pole, 20A, Eston BR220
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
XA-SOLARSHIELD-ES	Replacement solar shield for Combiner 3-ES / 3C-ES
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 3-ES / 3C-ES (required for EPLC-01)
XA-ENV-PCBA-3	Replacement IQ Envoy printed circuit board (PCB) for Combiner 3-ES / 3C-ES
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max. continuous current rating	65A
Max. continuous current rating (input from PV/storage)	64A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max, total branch circuit breaker rating (input)	80A of distributed generation / 90A with IQ Envoy breaker included
Production metering CT	200 A solid core pre-installed and wired to IQ Envoy
Consumption monitoring CT (CT-200-SPLIT)	A pair of 200 A split core current transformers
MECHANICAL DATA	
Dimensions (WxHxD)	37.5 x 49.5 x 16.8 cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to T15° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wiresizes	 20 Å to 50 Å breaker inputs: 14 to 4 AWG copper conductors 60 Å breaker branch input: 4 to 1/0 AWG copper conductors Main Jug combined outquit: 10 to 20 AWG copper conductors Natifal and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductors string. Always follow local code requirements for conductors string.
Altitude	To 2000 meters (6.560 feet)
INTERNET CONNECTION OPTIONS	
Integrated WI-FI	802.11b/g/n
Celular	CELLMODEM-M.1.4G based LTE-M.1 cellular modern (included only with IQ Combiner 3C-ES). Note that an Emphase Mobile Comnect cellular modern is required for all Ensemble installations.
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
Compliance Combiner	UL 1741, CAN/CSA C22 2 No. 1071, 47 CFR, Part 15, Class B, ICES 003
Compliance, IQ Envoy	Consumption metering: accuracy class 2.5 UL 60601-1/CANCSA 22.2 No. 61010-1

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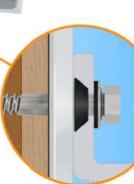


IRONRIDGE

FlashFoot™

product for composition shingle roofs that eliminates the need for separate standoffs, flashings, and L-feet. IronRidge FlashFoot™ is an all-in-one solar mounting

FlashFoot incorporates a number of structural and waterproofing features to securely attach inorFldge Ralls to roof structures, while also protecting against water intrusion and weather damage.



Dual Mechanical Seal

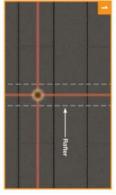
At the core of the FlashFoot, a pre-installed
rubber bushing forms a dual mechanical
radio bushing forms a dual mechanical
seal, with its exterior compressed against
the carely of the 1-00 and its interior tightly
wrapping around the shall of the lag bott.

12" + 12" COMETERS



Installation Overview

Tools Required: tape measure, chalk line, stud finder, roofing bar, caulking gun with an approved sealant, drill with 1/4" bit and 1/2" socket.



then backfill with an approved sealant to mark locations of flashings. Drill 1/4" pilot holes, Locate rafters and snap vertical and horizontal lines

Slide flashing, between 1st and 2nd course, so the top is at least 3/4" above the edge of the 3rd course and the bottom is above the edge of the 1st course.

(*



The FlashFoot is now installed and ready for lrowRidge Rails. With provided L-foot fasteners pre-loaded into rails, drop rails into open L-foot slots.



Testing & Certification

FlashFoot is certified for compliance with the international Building Codes (IBC) & International Residential Codes (IRC) by IAPMO-ES. Mechanical testing conformed to the standard for Testing and Analysis of Joist Hangers and Miscellaneous Connectors (EC002-2011), and rain testing conformed to the Underwriters Laboratory Standard for Gas Vents (UL 441-96 Section 25).

Douglas Fir, Larch	.50	798
Douglas Fir, South	46	705
Engelmann Spruce, Lodgepole Pine (MSR 1650 1 & higher)	.46	705
Hum, Fir	43	636
Hem, Fir (North)	.46	705
Southern Pine	.55	921
Spruce, Pine, Fer	.42	615
Spruce, Pine, Fir (E of 2 million pill and higher grades of MSR and MEL)	.50	798

Cartilod complant with EEC and IRC.

Water Shedding Design
A wide liashing layer combined with an elevated sealing platform maximizes the FlashFoot's water shedding ability.

A solid metal plate below the L-foot increases the FlashFoot's structural strength and prevents any deformation of the flashing during installation.

Load Distribution Plate

17-

CONTRACT





DLS Development Inc

21243 Ventura Blvd #135 Woodland Hills, CA 91364 Phone: (818) 857-2124

Email: developmentdls@gmail.com

Web: DLS-Development.com

Estimate # 2649

Date 11/19/2021

Business / Tax # #1041608

Description Total

Roof Estimate \$18,500.00

Scope of Work:

- -Tear off approximately 3,000 square feet of roof.
- -Clean up and haul away all debris.
- -Replace necessary damaged plywood at no additional cost.
- -Install Pro Armor synthetic underlayment.
- -Install new drip edge Metal.
- -All flashings and vents included. (Seal all flashings and vents).
- -Install starter shingles.
- -Install 30 year cool roof shingles, homeowner to select color.
- -Install rapid ridge cap.
- -Install low profile O'Hagen vents.
- -Install 1 solar tube.

All materials and labor included.

Permit and inspection included. Estimated time to completion: 5-7 days.

30 year manufacturers warranty. 10 year labor warranty.

Solar Proposal \$20,500.00

Solar proposal:

Install a 6.8 Kilowatt system consisting of Q-Cell solar panels rated at 340 watts per panel.

Install Enphase Micro-inverters with monitoring.

Permits and inspection included.

25 year manufacturers warranty.

Battery Backup \$13,500.00

Install Enphase Lithium iron battery.

Includes: Battery, smart switch, communication kit, plans, permit, and labor.

 Subtotal
 \$52,500.00

 Total
 \$52,500.00

By signing this document, the customer agrees to the services and conditions outlined in this document.

Signed on: 11/19/2021



LIMITED WARRANTY:

Limited warranty on installation and Use of Solar System: We warrant for 30 years that the Solar System is of good quality, is new when installed, and is constructed and installed in a good and workmanlike manner according to Prudent Solar Practices. We also warrant the Solar System, under normal use and service conditions, against any defect or deficiency in workmanship.

This limited warranty is transferable. To the maximum extent permissible by law, there is no implied warranty of merchantability or any implied warranty of fitness for any particular purpose. There are no warranties either expressed or implied which extend beyond the description section of this agreement.

Contractor's warranty excludes remedy for damage or defect caused by abuse, improper, or insufficient maintenance, improper operation, or normal wear and tear under normal usage.

Contractor's warranty will be voided if any contractor other than DLS Development Inc or our approved sub-contractors move, uninstall, perform maintenance, molest or disturb DLS Development original work and installation.

Possible Solar Panel Replacement: Due to shortages from the supply chain from the global pandemic, panels that are offered on this contract might not be available by the time permits have been issued for this project. If so, DLS Development Inc will replace these panels with equivalent or higher rated panels to continue and complete this project.

LIMITED ROOFING PENETRATIONS FROM INSTALLATION: We warrant that each roofing penetration made in connection with installing the Solar System, and the surrounding area within a five (5) inch radius of each penetration, against damage to the roof and against water infiltration through the roof caused from the penetration. DLS Development Inc will not be responsible for any wear and tear caused by the age of the roof or nature elements.

MANUFACTURES: Note that equipment, assemblies, or units purchased by the Contractor, included in our contract are sold and installed subject to the manufacturer's or processor's guarantee or warranties, and not the Contractor's. To the maximum extent permitted by law, all warranties given by the manufacturers pertaining to equipment, assemblies, or units installed by the Contractor in connection with the project will be passed through and insure to the benefit of the Customer.

Customer Na	me:		
Customer Sig	natu		
Date Signed	4/1/2022		

EXHIBIT D

LIMITED WARRANTY



Subject to the following terms, conditions and limitations, Contractor will, for a period commencing on the day the System is completely installed and ending ten (10) years thereafter ("Warranty Period"), warrant the Work to be free from defects under normal use. For the term of the Limited Warranty, Contractor shall, within a reasonable time and without charge, honor all manufacturers' warranty claims and provide customer system support, problem diagnosis, on-site repair and preventative maintenance. Upon expiration of the Warranty Period Contractor shall have no further obligation to make repairs at Contractor's expense under any provision of this Limited Warranty and Owner shall not make any further demand or claim against Contractor concerning Contractor's workmanship, or the equipment to be installed. For the Solar Energy System, if applicable, if installing the Solar Energy System requires penetrations to your roof during installation, we will warrant water damage caused by such roof penetrations. This roof warranty will run the longer of (A) one (1) year following the completion of the Solar Energy System installation; and (B) the length of any existing installation warranty or new home builder performance standard for your roof. This does not constitute a warranty for your existing roof and addresses only rooftop penetrations we make to install the Solar Energy System.

Warranty Exclusions:

Contractor does not provide any warranty to Owner for any component of the System. Any manufacturer's warranty is in addition to, not in lieu of, the limited warranties described above. The System's solar modules carry a minimum manufacturer's warranty that: (i) during the first 10 years of use, the modules' electrical output will not degrade by more than 10 percent (90%) from the originally rated output; and (ii) during the first 20 years of use, the modules' electrical output will not degrade by more than 20 percent (80%) from the originally rated output. The System's inverters carry a minimum manufacturer's workmanship warranty of at least 10 years. The energy storage components carry a minimum warranty of 10 years covering defects as well as maintaining an energy capacity of at least 70% from the rated capacity of the system at year 10 under standard operating conditions and/or Swell managed system performance if applicable.

This warranty does not apply to installation defects and/or failures caused by:

- Unauthorized maintenance, operation or modification, regardless of whether such is willful misconduct or negligence;
- Inspection, repair, relocation and/or modification except as performed by Contractor or Contractor's authorized agent;
- Natural forces, act of God, force majeure events and other unforeseen circumstances or causes beyond Contractor's reasonable control including, but not limited to, earthquakes, typhoons, hurricanes, tornadoes, floods, tsunami, lightning, or snow damage; or

• Rat, insect, or other animal or living creature of any kind.

No Other Warranties: NO OTHER EXPRESS WARRANTY IS GIVEN BY CONTRACTOR TO OWNER. THE CORRECTION OF THE INSTALLATION OF THE SYSTEM IS THE SOLE AND EXCLUSIVE REMEDY. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THIS LIMITED WARRANTY. TO THE EXTENT PERMITTED BY APPLICABLE LAW, ALL IMPLIED WARRANTIES, AND SPECIFICALLY THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED AND DISCLAIMED. This warranty is separate and apart from any warranty that may be issued to Owner by the System manufacturer. CONTRACTOR EXPRESSLY EXCLUDES AND DISCLAIMS ANY RESPONSIBILITY TO OWNER IN CONNECTION WITH OR ATTRIBUTABLE TO THE COMPONENTS OF THE SYSTEM AND THE APPLICABLE MANUFACTURERS' WARRANTY. Incidental or Consequential Damages: UNDER NO CIRCUMSTANCES SHALL CONTRACTOR BE LIABLE TO OWNER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF SAVINGS, EXPENSES OR DAMAGES INCURRED AS A RESULT OF NONPERFORMANCE OF THE SYSTEM OR DAMAGE TO OR LOSS OF USE OF THE HOME OR ITS CONTENTS, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF AGREEMENT OR UNDER ANY OTHER THEORY OF LAW.

Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State. Payment to Contractor. This Limited Warranty shall not be or become effective unless and until Contractor has been paid in full in accordance with the Agreement.

DLS DEVELOPMENT INC.

Ad

DANIEL SFADIA



THE IDEAL SOLUTION FOR:

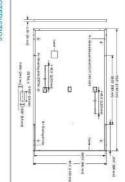


Engineered in Germany



MECHANICAL SPECIFICATION

Connector Staubi MC4; P68	Gabile 4 mm² Soler gable; (+) ≥45.3 in (£150 mm), (-) ≥45.3 in (£150 mm)	Junction Box 2,09-3,98 × 1,25-2,36 × 0,59-0,71 in (23-101 × 32-60 × 15-18 min), Pictection class IP67, with bypass clocks	Gell 6×20 monocrystaline Q.AMTUM adar hat cells	Frame Black and dad slutchum	Back Cover Composite Ilm	From Gover 0.13n (3.2 mm) the maly pie-stressed gass with anti-reflection technology.	All a see Common and a
	0mm), (-) ±45.3n (L150mm)	m (53-101 × 32-60 × th bypass diodes	derhetcels			ed glass	



3	BOMB OF 12 BOMBO			220	200	940	
I							
MIN	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC+ (POWER TOLERANCE +5W/-OW)	EST GONDITIO	NS, STC= (POWI	SK TOLERANDE +5W/ -0	W		
	Power at MPP*	Puse	Iwi	330	335	340	
	Short Grout Gurget!	ig.	E	10,41	10,47	10.52	
DAIR	Open Circuit Voltage*	Voc	PG.	40.15	40.42	40.86	
Nair	Current of MPP	186	E	166	9.97	10.02	
N	Voltage at MPP	Yus	3	33.29	33.62	33,94	
	Efficiency	7	[8]	218.4	21B.7	0.614	
MIN	MINIMUM SESSORMANCE AT NORMAL OPERATING CONDITIONS, NIMOTA	вити отправ	MONS, NMOT				
	Powers MEP	Pun	[w]	247.0	2507	254.5	
im	Short Direuit Current	lso.	E	8.39	843	8.48	
slim	Open Circuit Vollage	Vac	3	37.86	3810	38,34	
Mi	Current at MPP	1484	æ	7.80	7.84	7.89	
l,	Voltage at MPE	Y harm	3	30.66	30,97	32.27	
The same	Measurement televances P _{art} ± 3%, _{bo.} 1 ₅₀₀ ± 5% at \$10:1000 W/m², 25± 2°0, AM 1.5 according to £00.6004-3 = 2800 W/m², NMOT, spectrum AM 1.5	:STC:1000W/m²	25±2°C, AM 15	according to EC 60904-3-8	BOOW/ITP, NWOT, spectru	TAMIE	
Commission of the Commission o							

all data within measurement tube and-es. Full warrants in accordance with, the warrant terms of the GCELLS seles organization of your espective accurate. At learn 98% of nominal power of using first year. These her may 0.54% day dating year. At learn 93.1% of nominal power up to 1.0 years. At least 85% of nominal power up to 1.0 years. At least 85% of nominal power up to 5.5 years.

Typical module performance under the irradiance conditions in competition to STC conditions (26 °C, 1000 W/m²).

PROPERTIES FOR SYSTEM DESIGN

[54] I LOWIN

-0.27 109±5.4(48±8°C)

Temperature Coefficient of I₃₂
Temperature Coefficient of P₃₁₁

Maximum System Voltage Vips	Z	1000 (EC) /1000 (UL)	Salety Class	11
Maximum Series Fuse Rating	M DOJ	20	Fire Rading based on AMSI/ UL 1703	C(IED)/TYPE2 (UL)
Mex. Design Load, Push / Pulls	lips/rel	(euzadz) so i fedobatkaz	Permitted Module Temperature	-40°F up to +185°F
Max Test Load, Push/Pull*	[ibs/ff]	113 (5400Pa)/84 (4000Pa)	on Continuous Duty	(-40°Cup to +85°C)
See Installation Manual			,	

QUALIFICATIONS AND CERTIFICATES

Application dissal (LU.S. Friendthio. 3.898.215/jobin cells)	
98.215 (spanoels)	add the
98.215 (spanoels)	-
730,2016	STORY COMPANY OF THE PROPERTY OF THE PARK







71.5×45.8×48.0in [181.5×

PACKAGING INFORMATION

Note: Installation instructions must be folio of this product. disperating marked or contectiour technical service department/or further information on approved installation and use

Harvaha G CELLS America Inc. 400 Stechum Center Dine, Subs 1400, Intrie, CA 92518, USA | TEL +1,949,74859 99 | EMMIL Ingliny@usg-cell com | WEB www.g-cells.te



City of Los Angeles, Department of Building & Safety APPROVED PLANS

This set of plans are not approval for construction until the required permit fees are paid
 and the permit is issued.
 No inspection can be scheduled until the permit fees have been paid.

By: DANG, ANTHONY Application No./Permit No.: 21141-10002-20579 Date: 02/23/2022

This set of jars MUST be at the job site during construction.
 It is utablef to after change or devised from these plans.
 The stampting of this plan SHALL NOT constitute approval of violation of any provisions of any Ordinance or law annual plans plans are regized for BUILDING, ELECTROAL, PLLMSING, FIRE SPRINGLES,
 E.E.PANTOR, HAVIG, thesest it is part was issued as a combination parmit for a One or Tho Farshy.
 D.E.PANTOR, HAVIG reseast less parmit was issued as a combination parmit for a One or Tho Farshy.
 This approval is only for the items included on the parmit work description. Other items shown on the jarns are NOT included in this approval.

the highest system efficiency. lly simplify the installation process while Q 7 Micro" and Enphase IQ 7+ Micro" owered smart grid-ready

Enphase IQ System, the IQ 7 and

enabling Enphase to provide an industry-leading undergo over a million hours of power-on testing. standards set forth by previous generations and IQ Series Microinverters extend the reliability Enlighten" monitoring and analysis software. IQ Envoy", Enphase IQ Battery", and the Enphase IQ 7+ Microinverters integrate with the Enphase warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compilant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules More than a million hours of testing
- Class il double-insulated enclosure
- UL listed

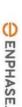
Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Meets CA Rule 21 (UL 1741-SA) Configurable for varying grid profiles

*The IQ 7+ Micro is required to support 72-cell middules

9

To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

ule pairings"	235 W - 350 W +		235 W - 440 W +	
	60-cell BV modules only	se onlu	60 call and 70	60-call and 73-cell DV modules
Maximum input BC voltage 4	48 V		60 V	
W	27 V-37 V		27 V - 45 V	
Operating range tv	16 V - 48 V		16 V - 60 V	
	22 V / 48 V		22 V / 60 V	
urrent (module lsc)	15 A		15 A	
			=	
ent	Þ		0 A	
PV array configuration 1 A	x 1 ungrounded C side protectio	array; No addition n requires max 20	1 x 1 ungrounded array: No additional DC side protection required. AC side protection requires max 20A per branch circuit	tion required;
OUTPUT DATA (AC)	1Q 7 Microinverter	ter	IQ 7+ Microinverter	verter
Peak output power 2	250 VA		295 VA	
us output power	240 VA		290 VA	
	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current 1	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency 6	2H 09		5H 08	
Extended frequency range 4	47 - 68 Hz		47-68 Hz	
nt over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit* 14	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
			=	
TRIM	3		3 3	
Power factor (adjustable)	0.7 leading 0.7	0.7 lagging	0.7 leading 0	0.7 lagging
	- 1	@208 V	- 1	@208.V
Peak CEC efficiency 9	97.6%	97.6 %	97.5%	973%
MECHANICAL DATA	2000	200	27.0 4	21.0 %
range -	40°C to +65°C			
& IQ7PLUS-72:2-US)	4% to 100% (condensing) MC4 (or Amphenol H4 U1	ensing) 51 H4 UTX with ad	ditional Q-DCC-5	adapter)
Cannector type (197-60-B-US & 197PLUS-72-B-US) Fig. 1	Friends PV2 (MC4 intermateable) Adaptors for modules with MC4 c -PV2 to MC4: order ECA-S20-S22 -PV2 to UTX. order ECA-S20-S25	Friends PV2 (MC4 intermateable). Adaptors for modules with MC4 or UTX connectors - PV2 to MC4: order ECA-820-822 - PV2 to UTX: order ECA-820-825	UTX connectors.	
Dimensions (WxHxD) 2 Weight 1	212 mm x 175 mr 1.08 kg (2.38 lbs)	212 mm x 175 mm x 30.2 mm (without bracket) 1.08 kg (2.38 lbs)	out bracket)	
Cooling	Natural convection - No fans	n - No fans		
Approved for wet locations Ye	Yes			
Pollution degree P	PD3			
	lass II double-in	sulated, corrosion	Class II double-insulated, corrosion resistant polymeric enclosure	ric enclosure
ital category / UV exposure rating	NEMA Type o / outdoor	MOOR		
Communication P.	Power Line Communication (PLC)	nunication (PLC)		
	niighten Manag	ar and MyEnlighte	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IO Envoy.	ons.
Disconnecting means T	The AC and DC connectors have disconnect required by NEC 690	nnectors have be ed by NEC 690.	en evaluated and	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.
Compliance C	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547 CAN/CSA-C22 2 NO. 1071-01 This product is UL Listed 88 F	'41-SA) 41/IEEE1547, FCC VO. 1071-01 LListed as PV Rag	Part 15 Class B, I	AD ARIJUE 27 (UL T741-SA). UL 62109-1,UL1741/IEEET54J, FCC Part 15 Class B, ICES-0003 Class B, CANUCSA-0212 2 NO. 1071-07 ITHIS product is UL lated as PV Rapid Shut Down Equipment and conforms with NEC-02014 and NEC 00171 control of 10 10 2 mol 02 10 10 10 10 10 10 10 10 10 10 10 10 10

1. No enforced DC/AC rank, See the compatibility exicution is drights/desphase/com/den-is/support/module-compatibility. 2. Normal-violage agrees peak extended beyond normal if required by the utility. 3. Limits may vary field in to be all requirements to define the number of infectionwithits per branch in your area.

To learn more about Enphase offerings, visit enphase.com

ID 2018 Enphase Energy, All rights reserved. All trade 2018-05-24 have the property of Enphase Bliergy, Inc.



CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date

20170112-E486080 E486080-20160830 2017-JANUARY-12

representative samples of This is to certify that

ENPHASE ENERGY INC

Issued to:

Petaluma CA 94954-6515 1420 N McDowell Blvd

DISTRIBUTED GENERATION WIRING SYSTEMS AND HARNESSES

Photovoltaic Wiring Harness, Models 840-00387 or Q-12-10-240, 840-00388 or Q-12-17-240, 840-00389 or Q-12-20-200, 840-00800 or Q-DCC-7, 840-00386 or Q-DCC-5, 840-00385 or Q-DCC-2.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL Subject 9703 - Outline of Investigation for Distributed Generation Wiring Harnesses

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Page 1 of 1

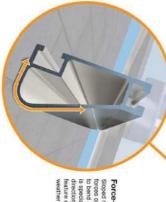


XR Rail Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

of installation time. penetrations and the amount reducing the number of roof requires fewer roof attachments Their superior spanning capability transfer loads into the building structure. against buckling and safely and efficiently these results. They resist uplift, protect XR Rails are the structural backbone preventing



Force-Stabilizing Curve

is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime. Sloped roots generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails

Compatible with Flat & Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof

IronRidge offers a range of tilt leg options for flat roof mounting applications a more attractive appearance

All XR Rails are made of marine-grade aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing Corrosion-Resistant Materials

XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10 is a sleek, low-profile mounting rail, perfectly matched to regions without snow. It achieves 6 foot spans, while also staying light and economical.

- 6' spanning capability
 Moderate load capability
 Clear anodized thish
 Internal splices available



XF100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans.



XR1000

XR1000 is a heavyweight among solar mounting rais. It's built to handle extreme climates and spans 12 feet or more for commercial applications.

12' spanning capability
 Extreme load capability
 Clear anodized finish
 Internal spiloes available

8' spanning capability
Heavy load capability
Clear & black anodized finish
Internal splices available

Rail Selection

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronFlidge.com for detailed span tables and certifications.

		7	Dail Span	nam.		
Snow (PSF)	Snow (PSF) Wind (MPH)		0;			
	100					
N.	120					
MOIDE	140	XR10	XR100		XR1000	
	160					
	100					
3	120					
10-20	140					
	160					
ŝ	100					
o	160					
à	100					
đ	160					
50-70	160					
80-90	160					



25800 Commercentre Drive Lake Forest, CA 92630 USA

Test Verification of Conformity

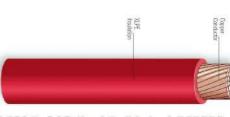
in the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address:	IronRidge, Inc. 1495 Zephyr Ave. Hayward, CA 94544		
Product Description:	XR Rails with Integrated Grounding	ling	
Ratings & Principle Characteristics:	Fire Class Resistance Rating: Class A for Steep Slope Flush-Mount (symmetrical) Applicati Type 2, listed Photovoltaic Module. Class A for Low Slope Flush-Mount and Tilt-Mount (symmetric Applications when using Type 1, listed Photovoltaic Module).	Flush-Mount (sy taic Module. lush-Mount and g Type 1, Listed I	is Resistance Rating. Class A for Steep Slope Flush-Mount (symmetrical) Applications when using Type 1 and Type 2, Listed Photovoltaic Module. Class A for Low Slope Flush-Mount and Tilt-Mount (symmetrical and asymmetrical) Applications when using Type 1, Listed Photovoltaic Module.
Models:	51-61GD-005, 51-61GD-005B, 51-5000-001, and 51-65-001	1-5000-001, and	51-65-001
Brand Name: Relevant Standards:	N/A UL Subject 2703 Outline of Inve for Flat-Plate Photovoltaic Mod	stigation for Rad ules and Panels,	N/A UI. Subject 2703 Outline of Investigation for Rack Mounting Systems and Clamping Devices for Flat-Plate Photovoltaic Modules and Panels, Issue Number: 1, October 4, 2010
Verification Issuing Office:	Intertek Testing Services NA, Inc. 25800 Commercentre Dr.	P	
Date of Tests: Test Report Number(s):	Lake Forest, CA 92630 08/27/2014 to 01/07/2015 1015411321AX-002		
This verification is part of the imply product certification.	full test report(s) and should be	read in conjunct	This verification is part of the full test report(s) and should be read in conjunction with them. This report does not automatically imply product certification.
Completed by: Amar Kacel Title: PV Engineer	ig ©	Reviewed by: Title:	Andrew Koretoff Reviewer
Signature:	1	Signature:	PARONELL
Date: 01/16/2015	15	Date:	01/16/2015

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GFT-OP-118 (24-MAR-2014)

TYPE PHOTOVOLTAIC/RHH/RHW-2 COPPER CONDUCTOR 600V AND 1000V/2000V



ENGINEERING SPECIFICATIONS:

Underwriters: Laboratories: Standards: UL-4703, UL-854, UL-44
UL-1666-1-44/EE1-1202, (20),000. Bruthy Terms: Test (1/07 AWS and larger)
(EA 1-724-502), (27),000 Bruthy Terms: Test
(EBA), WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658.
WEAA / WC770/EEA 5-95-658. Standards:



CONSTRUCTION:

Conductors:

Stranded conductors, uncoated copper per ASTM-8787 and ASTM-88

insulation:

Gross-Inked polyethylene (XLPE) insulation per UL-854, UL-4703 and UL-44

Applications:

Type Photovoliaic copier conductors are suitable for outdoor rooting applications without conduit and for use in conduits and razeways instelled underground in conduit in well orations, and where condensation and mosture accountations writin the conduit to not exceed 90°C, Applications requiring their build is permitted for Type Photovoliaic per U.-854. Applications requiring type Photovoliaic conductor, transportances shall not exceed 90°C in well or dry locations.

Available in 60019 and 1000/200004. All cables comply with LT's VM-1 (Vertical Wire) Hame feet, Insulation compounds are rated for flame and sunlight-resistance in all sizes and colors. Proteotratic conductors of 1.00 frough 1000 KCMIL are rated for CL rate. Scapundial from makings becaused every five on ansatzer rode only for 1.4WG through 1000 KCMIL unless otherwise specified. RSHS compilant. Electrity at Low Temperature Test. Carries -40°C rating.

Type Photovoltaic/RHH/RHW-2 Copper Conductor 600V and 1000V/2000V

	7 1	umber of	# F	nsulation bickness		Ontsk	Datside Diameter	=	1	Ulowable Empocity	I F	pproximate net meight	Staw	Standard Packaging (II)
			ĕ	ALVE (III)		4009	10007	/ 2000V	À	(State	1	(1 mm ti)		
	A009	A0002	A009	20004	(anno	ĵ	ì	fin)	V000	7000V	A009	V0007		A809
14	19	19	0.000	0.075	4.89	0.193	5.61	0.221	165	25+	24	28	500	500' 1000' 2500' reds
12	9	19	0.060	0.075	5.37	0.212	6.05	0.238	92	301	ಚ	38	500	500° 1000° 2500° reeks
10	150	19	0.000	0.075	5.99	0.236	6.60	0.260	4	404	47	52		500' 2500' reels
00	7	7	0.075	0.085	7.52	0.296	7.95	0.313	55	83	74	78	500	500' 1000' 2500' 5000' reels
¢,	7	7	0.075	0.005	8.48	0.334	8.86	0.349	75	75	108	113	500	1000' 2500' 5000' reels
du	7	7	0.075	0.085	9.70	0.382	10.06	0.396	95	98	161	166	500) 1000/ 2500' 5000' reels
ça.	7	*	0.075	0.085	10.41	0.410	10.77	0.424	110	110	197	203	500	
2	7+	7	0.075	0.085	11.23	0.442	11.58	0.456	130	130	243	249	500	1000' 2500' 5000'
-	19	19	0,095	0.106	13.16	0,518	13.49	0.531	150	150	313	320	500	1000' 2500' 5000' reels
0.1	5	19	0.095	0.105	13.97	0.550	14.48	0.570	170	170	390	989	500	1000' 2500' 5000' reels
2/0	19		0.095	0.105	15.09	0.594	15.60	0.614	195	秀	476	484	500	5000
3/0	19		0.095	0.106	16.36	0.644	16.87	0.664	225	225	590	500	500	1000' 2500' 5000' reels
8	19		0.095	0.106	17.78	0.700	18.29	0.720	260	260	732	742	500	1000' 2500' 5000' reels
250	37	37	0.110	0.120	19.35	0,762	19.86	0.782	290	290	873	884	500	1000' 2500' 4000' Reeks 500'
300	37		0.110	0.120	20.67	0.814	21.18	0.834	82	320	1035	1047	čm.	500' 1000' 3500' Reeds
350	22	37	0 110	0.120	21.87	0.961	22.38	0.881	7250	350	1198	1210		500' 1000' 3000' Reels
400	TE TE	SZ.	0.110	0.120	22.99	0.905	23.50	0.925	380	380	1358	1371		500' 1000' 3000' Reeks
500	37	37	0.110	0.120	25.04	0.986	25.55	1.006	430	430	1680	1694	01	500' 1000' 2500' Reels
900	61	67	0.125	0.135	29.03	1.143	29.54	1.163	475	475	2057	2073	On.	500' 1000' 2000' Reels
750	61	61	0.125	0.135	31.70	1.248	3221	1.268	585	535	2508	2525	9	500' 1000' 1500' Reeks
8	63	61	0.125	0.135	35.61	1,402	36.12	142	616	615	3303	3322		500' 1000' Reeks

^{*8} AWG - 2 AWG: 19/w is evallable upon request.
**Alloyable ampaidtes per NEC 310.15/B)(15) for 90°C. The overcurrent protection amperages, consult NEC 240.4D,

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14 MORT THROUGH - LANGE INCORE MEE CORPORATION (SZECTYFETNOTOVOLTAG OR BHI ORI BHIV 2 DECWETOFITIN'S ANTES - ACCOUNTALFOLL TARE THE OPERATOR OF DRIVEN SANCE ACCOUNTALFOLL TARE THE OPERATOR OF THE OPERATOR OPE



Copper Lay-In Ground Lug Direct Burial

RoHS **F**









CGBL

Lay-in feature

Manufactured from high strength copper

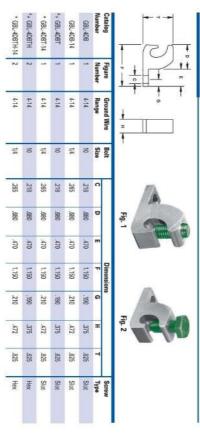
Stainless steel hardware

Provides ease of installation of continuous loop

Suitable for direct burial and for use with copper

Resists oxidation and corrosion in earth or concrete





noted otherwise, are American Wire Gauge (AWG)

All wire stees, unless noted otherwise, are American Wire Gauge (AWO
Tissed to U.S. U.F. File 23440)
* Tiniciales fin plating
+ GBL-4DBT and GBL-4DBTH are UL2703 Listed UL E354420 Vol. 2
Optional MH Series mounting hardware kits available, consult ILSCO

Z

LSCO Torque Index

TIGHTENING TORQUE VALUES FOR

ILSCO MECHANICAL SCREW CONNECTORS

AWG. OR CIRCULAR	TIGHTENING TORQUE IN INCH POUNDS EXTERNAL DR	JE IN INCH POUNDS EXTERNAL DRIVE
MILL SIZE	SCREW DRIVER	WRENCH
14	35	
12	35	
10	35	
8	40	
6	45	
4	45	
2	50	
_	50	
1/0	50	
2/0	50	
3/0		
4/0		
250		325
350		
500		
600		
700		
750		
800		
1000		

ILSCO SOCKETHEAD SCREW CONNECTORS TIGHTENING TORQUE VALUES FOR

910	1/2	3/8	5/16	1/4	7/32	3/16	5/32	1/8	INTERNAL SOCKET SIZE ACROSS FLATS INCHES
600	500	375	275	200	150	120	100	45	TIGHTENING TORQUE IN INCH POUNDS

Please reference the instruction sheet included with your connector for specific torque values.



ILSCO

134

Table I shows the recommended tightening torques for silicon bronze, stainless steel, gaivanized steel and aluminum alloy lardware. The shaded portion represents torques presently recommended by NEMA-CC1-1884 specification.

TABLE I TIGHTENING TORQUES

0000		Nominal Torque	Values	
BO.	Silicon Galvanized or	Bronze, Stainless Steel	Alumin (Lubr	um Alloy icated)
Diameter	FtLbs.	Inch-Lbs.	FtLbs.	Inch-Lt
%÷18	15	180	1	10
%-16	20	240	14	168
1/-13	40	480	25	300
11-3/2	OR OR	660	4	480
7/-10	80	960	70	840

For optimum efficiency, it is necessary that the correct bott, nut and washer combination be used with the correct combination of conductor materials. Table it shows acceptable methods of joining different combinations of bus bar. Where different combinations of metals are being joined, a follow-up device such as a control pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum. If both bars are hard drawn, large flat washers will suffice regardless of the both materials. Other considerations which should be taken into account when selecting hardware are corrosion and vibration. For example, if severe controls no santicipated, non-corrosive materials such as stainless steel or silicon bronze, should be selected in preference to galvanized steel. If vibration is anticipated, the use of locking washers should be considered.



METHODS OF JOINING BUS BARS TABLE II

8

If "A" Bar is Copper Aluminum Steel	and H "B" Bar is Copper Copper Copper	Hard Drawn Bus such as aluminum alloy. (1) Silicon (1) Silicon (1) Silicon (1) Silicon (2) Silicon (3) Silicon (4) Silicon (5) Silicon (6) Silicon (7)	Fig. Washer Steel (3) Siamiess Steel Nati — Fig. Washer Steel (3) Siamiess Steel Steel (3) Siamiess Steel	Soft Drawn Bus such as EC-H13 Aluminum, (1) Silicon (1) Silicon Bronze Bronze	Large Bolt (2) Stainless (2) Atuminum (2) Stainless Steel		(4) Conical			Flat Washer
Aluminum	Aluminum	(1) Aluminum	(2) Stainless Steel (3) Silicon Bronze, Plated	(1) Aluminum	(2) Stainless Steel	(3) Silicon Bronze	(4) Conical	Pressure	Plated or	
Steel	Aluminum	(1) Aluminum	(2) Stainless Steel	(1) Aluminum	(2) Stainless Steel	(3) Conical Pressure Washer	Plated or	Stainless		

Danoles preferred hardware usage
 Note: Contact sealant recommended between aluminum to aluminum and aluminum to copper connections, unities other protective measures are taken.

Stee

Steel

Bar Connections

The tang of a compression or a mechanical connector is a bus bar, which connects to another bus bar. If you remember the rule about wire bushing and using joint compound with bare (unplated) aluminum, you cannot go wrong. Plated parts should be cleaned with a solvent if they are dirty, but never abracke or otherwise disturb the plating! Flg. 3 shows a typical bar connection and the type of hardware used.

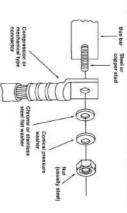


Figure 3. Contact surfaces must be clean. Use a joint compound with bare aluminum. Conical pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum.



Enphase Encharge 10

power rating. It provides backup capability and installers a total usable energy capacity of 10.08 kWh and twelve comprised of three base Encharge 3" storage units, has needs of both new and retrofit solar customers. can quickly design the right system size to meet the embedded grid-forming microinverters with 3.84 kW storage system is reliable, smart, simple, and safe. It is The Enphase Encharge 10" all-in-one AC-coupled



Reliable

- Proven high reliability IQ Series Microinverters
- Ten-year limited warranty
- Three independent Encharge storage base units
 Twelve embedded IQ 8X-BAT Microinverters
- Passive cooling (no moving parts/fans)

Smart

- Grid-forming capability for backup operation
- Remote software and firmware upgrade
- Support for self consumption Mobile app-based monitoring and control
- Utility time of use (TOU) optimization

Simple

- Fully integrated AC battery system
- Quick and easy plug-and-play installation
 Interconnects with standard household AC wiring

- Cells safety tested
 Lithium iron phosphate (LFP) chemistry for maximum safety and longevity



Enphase Encharge 10

MODEL NUMBER	
ENCHARGE:10-1P-NA	Enchange 10 battery storage system with integrated Enghaze Microinverters and battery management unit (BMU). Includes . Three Enchange 3.36 kWh base units (B3-A01-US001-1-3) . One Enchange 10 cover kit with cover, wall mounting bracket, watertight conduit hubs, and interconnect kit for winning bracket and (B10-C-1)30-0).
ACCESSORIES	
ENCHARGE-HNDL-R1	One set of Encharge base unit installation handles
OUTPUT (AC)	@ 240 VAC1
Rated (continuous) output power ^a	3.84 KVA
Peak output power	5.7 kVA (10 seconds)
Nominal voltage / range	240 / 211 - 264 VAC
Nominal frequency / range	60 / 57 - 61 Hz
Rated output current	16 A
Peak output current	24.6A (10 seconds)
Power factor (adjustable)	0.85 leading 0.85 legging
Maximum units per 20 A branch circuit	1 unit (single phase)
Interconnection	Single-phase
Maximum AC short circuit fault current over 3 cycles	
Round trip efficiency ²	89%
BATTERY	
Total capacity	10.5 kWh
Usable capacity	10.08 kWh
Round trip efficiency	96%
Nominal DC voltage	672V
Maximum DC voltage	73.5 V
Ambient operating temperature range	-15° C to 55° C (5° F to 131° F) non-condensing
Optimum operating temperature range	0°C to 30°C (32°F to 86°F)
Chemistry	Lithium iron phosphate (LFP)
MECHANICAL DATA	
Dimensions (WxHxD)	1070 mm x 864 mm x 319 mm (42.13 in x 26.14 in x 12.56 in)
Weight	Three individual 44.2 kg (97.4 lbs) base units plus 21.1 kg (48.7 lbs) cover and mounting bracket; total 154.7 kg (341 lbs)
Enclosure	Outdoor - NEMA type 3R
IQ 8X-BAT microinverter enclosure	NEMA type 6
Cooling	Natural convection - No fans
Attitude	Up to 2500 meters (8200 feet)
Mounting	Wall mount
FEATURES AND COMPLIANCE	
Compatibility	Compatible with grid-fied PV systems. Compatible with Enphase IQ Series Micros, Enphase Enpower, and Enthase IQ Envoy for backup operation.
Communication	Wireless 2.4 GHz
Services	Backup, self-consumption, TOU, Demand Charge, NEM integrity
Monitoring	Enlighten Manager and MyEnlighten monitoring options; API integration
Compliance	UL 9540,UN 38.3, UL 9540A, UL 1998,UL 991, NBMA Type 3R, AC156 EML 47 CFR, Part 15, Clase 8, CGS 003 Cell Module: UL 1973, UN 38.3
LIMITED WARRANTY	
The state of the s	

2. AC to Battery to AC at 50% power rating. 3. Whichever occurs first. Restrictions apply.

To learn more about Enphase offerings, visit enphase.com

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ENPHASE.

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Enpower Enphase

capabilities of PV and storage installations by and solar PV. It provides microgrid interconnection residential applications. providing a consistent, pre-wired solution for a single enclosure and streamlines grid independent failure. It consolidates interconnection equipment into from grid power to backup power in the event of a grid and seamlessly transitioning the home energy system device (MID) functionality by automatically detecting home to grid power, the Encharge storage system, The Enphase Enpower" smart switch connects the



Reliable

- Durable NEMA type 3R enclosure
- Ten-year limited warranty

Smart

- Controls safe connectivity to the grid
- Automatically detects grid outages
- Provides seamless transition to backup

Simple

- Connects to the load or service equipment' side of the main load panel
- Centered mounting brackets support single stud mounting
- Supports conduit entry from the bottom, bottom left side, and bottom right side
- Supports whole home and partial home backup and subpanel backup
- Up to 200A main breaker support
- Includes neutral-forming transformer for split phase 120/240V backup operation

Enperwer is not suitable for use as service Canada.

To learn more about Enphase offerings, visit enphase.com



Enphase Enpower

MODEL NUMBER		
EP200G101-M240US00	Exphase Expower smart switch with neutral-forming transformer (NFT), Microgrid Interconnect Device (MID), breakers, and screws Streamines prici-independent capabilities of FV and storage installations	NFT), Microgrid Interconnect Devic
ACCESSORIES and REPLACEMENT PARTS	3	
XA-E3-PCBA-ENS	Replacement Enpower controller printed circuit board	
Circuit breakers (as needed)\-= BRK-100A-2P-240V	Not included, must order separately: • Main breaker, 2 pole, 100A, 25KAIC, CSR2100N or CSR2100	
BRK-125A-2P-240V	 Main breaker, 2 pole, 123A, 25KAIC, CSR2125N Main breaker, 2 pole, 150A, 25KAIC, CSR2150N 	
BRK-175A-2P-240V BRK-200A-2P-240V	 Main breaker, 2 pole, 175A, 25kA/C, CSR2175N Main breaker, 2 pole, 2004, 25kA/C, CSR2200N 	
BRK-20A-2P-240V-B	· Circuit breaker, 2 pole, 20A, 10kAIC, BR220B	
BRK-40A-2P-240V	 Circuit breaker, 2 pole, 30A, 10kAIC, BR230B Circuit breaker, 2 pole, 40A, 10kAIC, BR240B 	
BRK-60A-2P-240V BRK-80A-2P-240V	 Circuit breaker, 2 pole, 60A, 10kAiC, BR250 Circuit breaker, 2 pole, 80A, 10kAiC, BR250 	
EP200G-HNDL-RT	Enpower Instaliation handle kit (order separately)	
ELECTRICAL SPECIFICATIONS		
Assembly rating	Continuous operation at 100% of its rating	
Nominal voltage / range (L-L)	240 VAC / 100-310 VAC	
Voltage measurement accuracy	±1% V nominal (±1.2V L-N and ±2.4V L-L)	
Nominal frequency / range	60 HZ / 56 - 63 HZ	
Frequency measurement accuracy	±0.1 Hz	
Maximum continuous current rating	160A	
Maximum output overcurrent protection device	200A	
Maximum input overcurrent protection device	200A	
Maximum overcurrent protection device rating for storage branch circuit ⁴	80A	
Maximum overcurrent protection device rating for PV combiner branch circuit*	80A	
Neutral Forming Transformer (NFT)	Breaker rating (pre-installed): 40A between L1 and Neutral; 40A between L2 and Neutral continuous rated power: 35,00VA Continuous rated power: 35,00VA Heavinum continuous unitaliance purrent: 30A @ 122V Heavinum continuous unitaliance purrent: 30A @ 122V Heavinum continuous unitaliance purrent: 40A @ 122V Heavinum continuous unitaliance purrent: 40A @ 120V for 30 seconds Peak trated power: 88,00VA for 30 seconds Peak trated power: 88,00VA for 30 seconds	setween L2 and Neutral
MECHANICAL DATA		
Dimensions (WxHxD)	50cm x 91.5cm x 24.6cm (19.7 in x 36 in x 9.7 in)	
Weight	38.5 kg (85 lbs)	
Ambient temperature range	-40° C to +50° C (-40° F to 122° F)	
Cooling	Natural convection, plus heat shield	
Enclosure environmental rating	Outdoor, NEMA type 3R; polycarbonate construction	
Amiude	to 2500 meters (8200 feet)	
WIRE SIZES		
Connections	Main lugb, backup load lugb, and CSR breakers B breakers (wire provided) Accombiner lug. Enchange lugs, and generator (reserved for Ature use) lugs Natra (large lugs) Natra (large lugs)	CU/AL: 2 AWG - 300 KCMIL 6 AWG 14 AWG - 2 AWG CU/AL: 6 AWG - 300 KCMIL
Neutral and ground bars	Large holes (5/16-24 UNF) Small holes (10-32 UNF)	14 AWG - 1/0 AWG 14 AWG - 6 AWG
COMPLIANCE		
Compliance	UL 1741, UL 1741 SA, UL1998, UL869A), UL674, UL5081, UL50E1 CSA 22 2 No. 1071, 47 CFR, Part 15, Class B, ICES 003, AC156	
The second section of the second seco		

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^{2.} Compatible with 0RHD X125 Hold-Owen Kit to comply with 2017 RTC 710.155 for back-fed circuit breakers. If The IAOC of Exposer is the earne so the IAOC of the noish breaker being invalided as lifeted. A Not included, for siller must proved up operative side posity prior for large large large large large. A Not included. In the IAOC of the posity reside beader prior included.
5. Sections from these standards were used during the sofety evoluntion and included in the IAI. VAI listing.

To learn more about Enphase offerings, visit enphase.com

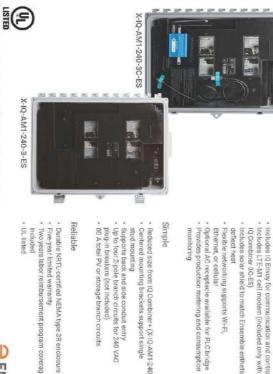
Data Sheet Enphase Networking

Enphase IQ Combiner 3-ES/3C-ES

X-IQ-AM1-240-3C-ES X-IQ-AM1-240-3-ES

The Enphase IQ Combiner 3-ES/3C-ES" with

pre-wired solution for residential applications. Enphase IQ Envoy" and integrated LTE-M1 cel Eaton BR series busbar assembly. It offers up to four 2-pole input circuits and storage installations by providing a consistent modem (included only with IQ Combiner 3Cinto a single enclosure and streamlines PV and ES) consolidates interconnection equipment



- Includes IQ Envey for communication and control includes ITE-MT cell modern (included only with IQ combiner 3C-ES)

 Includes solar shield to match Ensemble esthetics and includes solar shield to match Ensemble esthetics.
- deflect heat
- Flexible networking supports Wi-Fi, Ethernet, or cellular

Simple

- Reduced size from IQ Combiner+ (X-IQ-AM1-240-2)
 Centered mounting brackers support single stud mounting
 Supports back and side conduit entry
 Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
 80 A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
 Free-year limited warranty
 Two years labor reimbursement program coverage included
 UL listed

X-IQ-AM1-240-3-ES



To learn more about Enphase offerings, visit enphase.com

Enphase IQ Combiner 3-ES / 3C-ES

MODEL NUMBER	
(Q Combiner 3-ES (X-IQ-AM1-240-3-ES)	(Q Combhes 3-E5 with Biphase IQ Ervey printed circuit board for integrated revenue grade PV production matering (AVS C12.20 +/.0 %) and consumption monitoring (4-£ 2.5), includes a silver production matering (AVS C12.20 +/.0 %) and consumption monitoring (4-£ 2.5), includes a silver sold or smidd to matering the printeges strong as specim and Enjoyee strant eviders) and to deflect heat, sold as risked to materials.
IQ Combiner 3C-ES (X-IQ-AM1-240-3C-ES)	(Q Combiner 3C-ES with Exphases (Q Envey printed circuit board for Integrated revenue grade PV production metering (ANSI C12 20 4-0 5%) and consumption monitoring (4-2.5%). Includes Exphases Mobile Commest ITE-AIT (CELL MODENAM) a plug-and-play industrial-grade cell modern for systems up to 60 microinverters (Available in the US, Canada, Mexico, Puerto Rico, and the US Yrighn is tards, where there is adequate cellular services in the installation area). Includes a silver sold sheld to match the Encharge geroage system and Expower some resultation area) includes a silver sold sheld to match the Encharge geroage system and Expower some resultations and to deflect heat, sheld to match the Encharge geroage system and Expower some systems of the description.
ACCESSORIES and REPLACEMENT PARTS	(not included, order separately)
Ensemble Communications Kit (COMMS-CELLMODEM-M1)	Includes COMMS-XIT-01 and CELLMODEM-M1 with 5-year data plan for Ensemble sites
Circuit Breakers BRK-10A-2-240	Supports Exton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eston BR210
BRK-15A-2-240 BRK-20A-2P-240	Circuit breaker, 2 pole, 20A, Eston BR215 Circuit breaker, 2 pole, 20A, Eston BR220
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
XA-SOLARSHIELD-ES	Replacement solar shield for Combiner 3-ES / 3C-ES
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 3-ES / 3C-ES (required for EPLC-01)
XA-ENV-PCBA-3	Replacement IQ Envoy printed circuit board (PCB) for Combiner 3-ES / 3C-ES
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max. continuous current rating	65A
Max. continuous current rating (input from PV/storage)	64A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max, total branch circuit breaker rating (input)	80A of distributed generation / 90A with IQ Envoy breaker included
Production metering CT	200 A solid core pre-installed and wired to IQ Envoy
Consumption monitoring CT (CT-200-SPLIT)	A pair of 200 A split core current transformers
MECHANICAL DATA	
Dimensions (WxHxD)	375 x 49.5 x 16.8 cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to T15° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wiresizes	 20 Å to 50 Å breaker inputs: 14 to 4 AWG copper conductors 60 Å breaker branch input: 1 to 1/0 AWG copper conductors Main Jug comining durjust: 10 to 20 AWG copper conductors Main Jug comining durjust: 10 to 20 AWG copper conductors Naufrai and ground: 14 to 1/0 copper conductors Always follow focal code requirements for conductors string.
Altitude	To 2000 meters (6.560 feet)
INTERNET CONNECTION OPTIONS	
Integrated WI-FI	802.11b/g/n
Celular	CELLMODEM-M.1 4G based LTEM1 cellular modern (included only with IQ Combiner 3C-ES). Note that an Enphase Mobile Comnect cellular modern is required for all Ensemble installations.
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
Compliance Combiner	UL 1741, CAN/CSA C22 2 No. 1071, 47 CFR, Part 15, Class B, ICES 003
Compliance, IQ Envoy	Consumption metering: acquracy class 2.5 UL 60601-1/CANCSA 22.2 No. 61010-1

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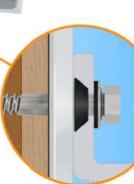


IRONRIDGE

FlashFoot™

product for composition shingle roofs that eliminates the need for separate standoffs, flashings, and L-feet. IronRidge FlashFoot™ is an all-in-one solar mounting

FlashFoot incorporates a number of structural and waterproofing features to securely attach inorRidge Ralls to root structures, while also protecting against water intrusion and weather damage.



Dual Mechanical Seal

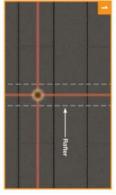
At the core of the FlashFoot, a pre-installed
rubber bushing forms a dual mechanical
radio bushing forms a dual mechanical
seal, with its exterior compressed against
the carely of the 1-00 and its interior tightly
wrapping around the shall of the lag bott.

12" + 12" COMMINGE



Installation Overview

Tools Required: tape measure, chalk line, stud finder, roofing bar, caulking gun with an approved sealant, drill with 1/4" bit and 1/2" socket.



then backfill with an approved sealant to mark locations of flashings. Drill 1/4" pilot holes, Locate rafters and snap vertical and horizontal lines

Slide flashing, between 1st and 2nd course, so the top is at least 3/4" above the edge of the 3rd course and the bottom is above the edge of the 1st course.

(*



The FlashFoot is now installed and ready for lrowRidge Rails. With provided L-foot fasteners pre-loaded into rails, drop rails into open L-foot slots.



Testing & Certification

FlashFoot is certified for compliance with the international Building Codes (IBC) & International Residential Codes (IRC) by IAPMO-ES. Mechanical testing conformed to the standard for Testing and Analysis of Joist Hangers and Miscellaneous Connectors (EC002-2011), and rain testing conformed to the Underwriters Laboratory Standard for Gas Vents (UL 441-96 Section 25).

Douglas Fir, Larch	.50	798
Douglas Fir, South	46	705
Engelmann Spruce, Lodgepole Pine (MSR 1650 1 & higher)	.46	705
Hum, Fir	43	636
Hem, Fir (North)	.46	705
Southern Pine	.55	921
Spruce, Pine, Fer	.42	615
Spruce, Pine, Fir (E of 2 million pill and higher grades of MSR and MEL)	.50	798

Cartilod complant with EEC and IRC.

Water Shedding Design
A wide liashing layer combined with an elevated sealing platform maximizes the FlashFoot's water shedding ability.

A solid metal plate below the L-foot increases the FlashFoot's structural strength and prevents any deformation of the flashing during installation.

Load Distribution Plate

17-

DLS Development Inc.

2314 Castle Heights Ave. Los Angeles, CA 90034 US developmentdls@gmail.com



INVOICE

BILL TO

6944 Lena Ave.

West Hills, CA

USA

 INVOICE
 1027

 DATE
 11/19/2021

 TERMS
 Net 30

 DUE DATE
 12/19/2021

SERVICE	DESCRIPTION		QTY	RATE	AMOUNT
Roofing				18,500.00	18,500.00
Solar	6.8kw solar system			20,500.00	20,500.00
Battery	Battery Backup			13,500.00	13,500.00
Services	Project discount		1	-2,500.00	-2,500.00
Services	Credit Processing Fee		1	52.50	52.50
		PAYMENT			48,500.00

BALANCE DUE \$1,552.50



Payment receipt

You paid \$1,552.50

to DLS Development Inc. on May 31, 2022

Invoice no. 1027

Invoice amount \$50,052.50

Total \$1,552.50

Payment method

Authorization ID MQ0095637997

Thank you



DLS Development Inc.

18188572124

developmentdls@gmail.com 2314 Castle Heights Ave., Los Angeles, CA 90034

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