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Renon Power Xcellent Plus 16kWh Bundle > 16 kWh Lithium Iron Home Battery System - Standalone Battery Stack with Sol-Ark 15kW Hybrid Inverter





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Our Price: **\$9,094.00**

Warranty: 10 Years

Qty:

1

ADD TO CART

Product Code: RENON-XCELLENT-16KWH-BUNDLE

Description

Datasheet

Reviews

Renon Power > Xcellent Plus Bundle | 16 kWh Lithium Iron Home Battery System - Standalone Battery Stack with Sol-Ark 15kW Hybrid Inverter

Components Included:

Sol-Ark 15K-2P > 15kW 48V All-In-One Hybrid Inverter - SA-15k

Qty. 1

Renon Power Xcellent Plus > 16 kWh Lithium Iron Home Battery System

Qty. 1

- Standalone Battery and Wall Mount

Xcellent Plus

- Dependable Safety:** Designed with a high level of safety features, including dependable lithium iron phosphate (LiFePO4) technology, ensuring safe and stable operation.
- Sleek Aesthetics:** Engineered for silent operation, making it ideal for home settings where noise levels need to be minimal.
- Whisper-Quiet Operation:** The integration with Renon Flex Inverter eliminates the need for additional third-party inverters, and the 10-year warranty enhances user confidence and satisfaction.
- Versatile Compatibility:** Compatible with various inverters and energy systems, allowing for flexible integration with existing home energy setups.
- Long Cycle Life:** Offers an impressive cycle life of up to 8000 cycles, providing long-term reliability and cost-effectiveness.

Model

Xcellent Plus (16.0 kWh)

Number of Battery Module Stacks

1

Series

Xcellent Plus

Manufacturer

Renon Power

Mechanical

Battery Energy Storage

Battery Chemistry

LiFePO4

Cell Capacity (Ah)

314

Nominal Energy (kWh)

16

Output Power (kW)

10.2

Default Voltage (V)

5.12

Voltage Range (V)

43.2 ~ 59.2

Max. Operation Current (A)

200

Primary Overcurrent Protection (A)

210@5S

Secondary Overcurrent Protection (A)

240@3S

Max. Charging Voltage (V)

58.4

Discharge Cut-off (V)

43.2

Recommended Charging Voltage (V)

56.8

Dimension - W*D*H

22" x 8.3" x 34.6" / 560 x 210 x 880mm

Net Weight

~351 lbs / ~159 kg

General Parameters

Scalability

Max. 15 systems in parallel

Storage Conditions

-4°F ~ 131°F(32°F ~ 95°F Recommended)
Up to 90%RH, non-condensing
Initial SoC: 50%

Operating Temperature

Charge: 32°F ~ 122°F
Discharge: -4°F ~ 122°F

Cooling

Natural Cooling

Max. Altitude

4000m / 13123ft

Cycle Life

8000 Cycles

Communication

RS485, CAN, RS232

System Characteristic

Battery Model

R-XC016161-US

Battery Compliances

UN38.3, UL9540, UL9540A, UL1973

Installation Method

Natural Cooling

Installation Method

Wall-Mounting or Floor Mounting

Installation Scene

Indoor or Outdoor

IP Rating

IP65

Warranty

10 Years

Sol-Ark SA-Limitless-15K > 15,000 Wattt 48 Volt All-In-One Solar Generator - Hybrid Inverter

Manufacturer Part Number: 15K

Sol-Ark SA-Limitless-15K Hybrid All-In-One Hybrid Inverter

Parallel Stacking (1-12), Grid Sell, Meter Zero, Time of Use, Smart Load, Peak Shaving, 15kW Peak Power, 19.2kW AC Coupling.

- DC Transformerless:**
Boosts PV energy 10-20% without increasing PV array size and reduces storage inverter costs up to 30%.
- Battery Efficiency:**
Improve battery efficiency by 10-15%; Partial Charge Carbon AGM's round trip efficiency is 98% vs. wet cell 80%.
- Easy to Install:**
Sol-Ark 15K's All-In-One design cuts install time in half. With 2x MPPTs, and 15kW continuous / 24kW peak inverter, a user friendly wiring area, and remote monitoring built in.
- U.P.S.:**
Sol-Ark 15K acts as a massive uninterruptible power supply with a lightning fast 4ms transfer time.

Pending Approvals: for: HECO, Canada, & PREPA Approved for Puerto Rico 120/240 & 208V

CA, HI, PR customers: CEC listing, CA Rule 21 compliance, SGIP, HECO and PREPA certifications are expected in November 2022. These state and local specific requirements will need to be in place before a Sol-Ark 15K inverter can be permitted and pass inspection for interconnection with the grid.

Electronics Certified Safety by SGS Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6

Grid Sell Back - UL1741-2010/2018, IEE-E1547a-2003/2014, FCC 15 Class B, UL1741SB

NOTE: NEC Article 706.15 restricts the maximum capacity of individual battery systems installed in a single unit to 20 kilowatt-hours (kWh) in certain jurisdictions, including the state of California. Check with your local AHJ.

All Hybrid Inverter PV Systems will need rapid shutdown. The IMO BG10P34-11 remote shutdown button is an outdoor initiation switch that can be used to trigger PV system rapid shutdown.

IMO RSD Button BG10P34-11 > Rapid Shutdown Button compatible with AFAman Rapid Shutdown System

IEEE 1547-2018 requires the local communications interface to remain available whenever the DER is operating. This indirectly creates a requirement for the IQ Gateway not to reboot during and following a low voltage ride through event. The IQ Gateway hardware was redesigned to meet this requirement so installers must only choose from the list of supported hardware and be running software versions 7.3.460 or later to be fully compliant.

Sol-Ark 15k Specifications

Max allowed PV DC Capacity

19,500W

Max PV power delivered to Battery & AC outputs

15,000 Watts

Max DC voltage

500V@26A

MPPT voltage range

125-425V

MPPT Starting Voltage

125V

Number of MPPT

3

Max Solar Strings Per MPPT

2

Max DC Current per MPPT (Self Lim-iting)

26A

Max AC Coupled Input (Micro/String Inverters)

19,200W

Nominal AC Output Voltage

120/240/208V split phase

Continuous AC Power from PV

15,000W 62.5A-L (240V)

Continuous AC Power from Batteries

12,000W 50A-L (240V)

Surge AC Power 10 seconds

24,000VA L-L (240V)

Surge AC Power 100ms

30,000VA L-L (240V)

Parallel Stacking

Yes - Up to 12

Frequency

60/50Hz

Continuous AC Power with Grid or Generator

48,000 W 200A L-L (240V)

CEC Efficiency

96.5% (Peak 97.5%)

Idle Consumption Typical - No Load

90W

Sell Back Power Modes

Limited to Household / Fully-Grid-Tied

Battery Type

Lead-Acid or Li-Ion

Communication to Lithium Battery

CanBus & RS485

Nominal DC Input

48V

Capacity

50 – 9900Ah

Voltage Range

43.0 - 63.0V

Continuous Battery Charging Output

275A

Charging Curve

3-Stage w/ Equalization

Grid to Battery Charging Efficiency

96.0%

Dimensions (H x W x D)

31.8" x 18.3" x 10.9"

Weight

135 lbs

Product Features

- Engineered, Serviced, And Tested In The USA**
- Split Phase & Three Phase**
Sol-Ark's 15K pumps out power just like the grid, allowing you to power 120V/240V/208V appliances
- Grid-Tied, Hybrid, Off-Grid**
Manages power from Solar, Battery, Grid, Load, and Generator simultaneously
- 10-Year Standard Warranty**
No need for additional warranties. The 15K comes standard 10-year warranty right out of the box.
- Limitless**
200A passthrough, so there's no subpanel needed! This inverter is perfect for whole-home backup. Features and benefits include parallel stacking, grid sell, meter zero, time of use, smart load, AC coupling, & peak shaving.
- All-In-One**
The Sol-Ark 15k Outdoor Case is a pre-wired system that contains the inverter, charge controller, and more, all in one package; no fuses, breakers, or combiner boxes necessary! With minimal additional hardware required, your install stays simple and low-cost.
- Battery Agnostic**
Sol-Ark inverters also do not have expensive battery restrictions like other solar inverters do, and can be used with a wide variety of 48V battery chemistries, from lead to lithium.
- Highly Accelerated Life Testing**
Proven to last well beyond the standard 10 year warranty

Helpful Hint with Sol-Ark hybrid inverters:

Unlike most string inverters - Sol-Ark hybrid inverter solution will not have a complete power loss for a series string of modules if one of the panels goes bad (stops producing) *** so as long the total voltage of the remaining panel meets or exceeds the min MPPT voltage range of 150VDC.

About Sol-Ark

Headquartered in Plano, Texas, Sol-Ark is a solar and energy storage technology firm designing and manufacturing multiple inverter lines and load management devices. Founded in 2013 by local U.S. Veterans with immense experience in power electronics, semiconductors, and hardware design, the Sol-Ark team was determined to prepare and protect their own families and businesses from utility power outages by providing reliable and robust solutions. The Sol-Ark all-in-one hybrid inverters are best-in-class technology with speed, efficiency, and power as their main advantages, as well as great versatility. Continuing to expand the innovative offering in depth and capability, Sol-Ark added string inverters and micro-inverters enabling a broad diversity of application types. The Sol-Ark mission is to continue making the most reliable, innovative, and robust solar and energy storage solutions to protect families and their businesses. We are "Powering Families Through Life™". Dedicated to providing world-class customer support and continuing innovation, the Sol-Ark team is carrying out the vision of making solar plus energy storage affordable for all.

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48 VDC

200 +

Power Inverters

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