



### PRODUCT OVERVIEW

Complete power storage system features long life LiFePO4 batteries with high performance battery management system (BMS) and PCS is suitable for a wide range of applications.

SR-EOH is a new generation of household energy storage system with two output specifications of 220V and 110V. The SR-EOH energy storage system's modular design, including power modules and battery expansion modules, can be easily combined into a system of any capacity required.

### FEATURES

- Complete power storage system
- CAN/RS485/WiFi communications
- Intelligent BMS system
- Interlocking modules, no rack required
- Fully digital double closed-loop current & voltage control
- Optimized MPPT tracking
- Main power, PV and battery priority modes

### APPLICATIONS

- Emergency power supply
- Home backup storage
- Solar power storage
- Telecommunications backup power storage
- Data storage/UPS backup power storage
- Off-grid power

## Product Description

PART#	DESCRIPTION	VOLTAGE	CAPACITY	OUTPUT	WEIGHT
EV-EOH48-5.0U-S2	100Ah 48v LiFePO4 Battery	51.2V	5.12kWh	100Ah	176.36 LBS
EV-EOH48-10.0U-S2	200Ah 48v LiFePO4 Battery	51.2V	10.24kWh	200Ah	293.21 LBS
EV-EOH48-15.0U-S2	300Ah 48v LiFePO4 Battery	51.2V	15.36kWh	300Ah	410 LBS
EV-EOH48-20.0U-S2	400Ah 48v LiFePO4 Battery	51.2V	20.48kWh	400Ah	526.9 LBS

## Specifications

MODEL#	EV-EOH48-5.0U-S2	EV-EOH48-10.0U-S2	EV-EOH48-15.0U-S2	EV-EOH48-20.0U-S2
<b>BATTERY</b>				
Battery Modules	1	2	3	4
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	100Ah	200Ah	300Ah	400Ah
Weight	176.36 LBS	293.21 LBS	410 LBS	526.9 LBS
Dimensions (L x D x H)	27.95" x 17.71" x 15.74"	27.95" x 17.71" x 23.62"	27.95" x 17.71" x 31.49"	27.95" x 17.71" x 39.37"
Battery Type	LiFePO4			
Battery Rated Voltage	51.2V			
Working Voltage Range	44.8 - 57.6V			
Maximum Charging Current	100A			
Maximum Discharge Current	100A			
DOD	80%			
Parallel Quantity	4			
Designed Life Span	6000 CYCLES			
Operating Temperature	CHARGE: 32° - 113°F / DISCHARGE: 14° - 113°F			
Operating Humidity	5% - 85%			
Cooling Mode	FORCED AIR			
Noise	60dB(A)			
Ingress Protection Rating	IP20			
Installation Method	HORIZONTAL			
<b>PV CHARGING</b>				
Solar Charge Type	MPPT			
Maximum Output Power	5kW			
Charging Current Range	0 – 80A			
Operating Voltage Range	100 – 500V			
MPPT Voltage Range	120 – 450V			
<b>AC CHARGING</b>				
Maximum Charge Power	3150W			
AC Charging Current Range	0 – 40A			
Rated Input Voltage	220/230VAC			
Input Voltage Range	90 – 280VAC			
<b>AC OUTPUT</b>				
Rated Output Power	5kW			
Maximum Output Current	50A			
Frequency	60Hz			
Overload Current	55A			

MODEL#	EV-EOH48-5.0U-S2	EV-EOH48-10.0U-S2	EV-EOH48-15.0U-S2	EV-EOH48-20.0U-S2
<b>BATTERY INVERTER OUTPUT</b>				
Rated Output Power	5kW			
Maximum Peak Power	10kVA			
Power Factor	1			
Rated Output Voltage (VAC)	230VAC			
Frequency	50Hz			
Auto Switch Period	< 15ms			
THD	< 3%			
<b>GENERAL DATA</b>				
Communication	RS485/CAN/Wi-Fi			
Storage Time / Temperature	6 Months @ 77°F   3 Months @ 95°F   1 Month @ 113°F			
Charging Temperature Range	0 - 113°F			
Discharging Temperature Range	14 - 113°F			
Operating Humidity	5% - 85%			
Nominal Operation Altitude	< 6,561ft			
Cooling Mode	Forced air			
Noise	60dB(A)			
Ingress Protection Rating	IP20			
Recommended Operating Environment	Indoor			
Installation Method	Horizontal			
Certification	UN38.3,MSDS,EN55032,EN55024,EN61000-3-2,EN61000-3-3			

## Product Images



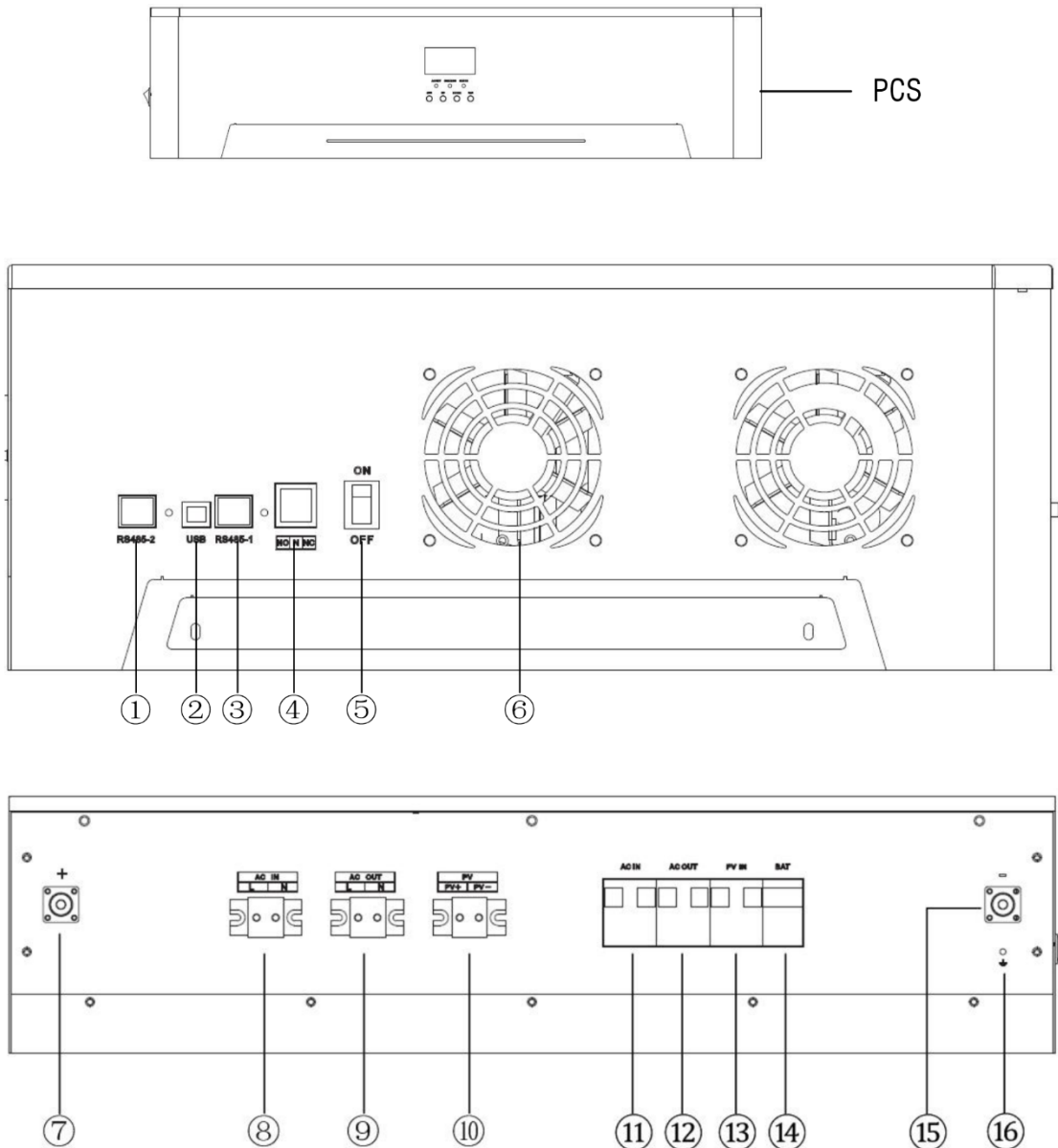
EV-EOH48-5.0U-S1 (5kW)

EV-EOH48-10.0U-S1 (10kW)

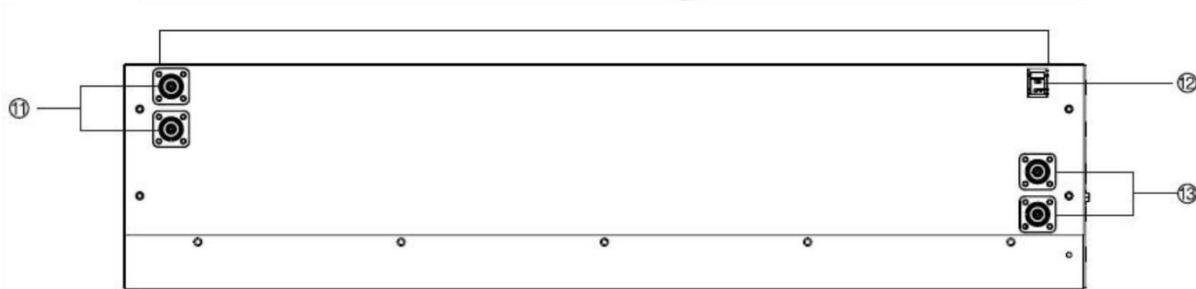
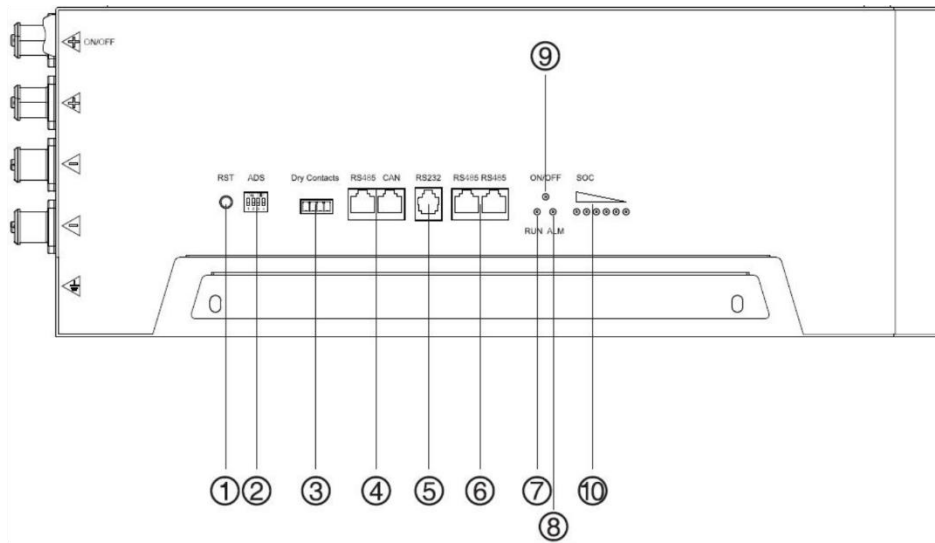
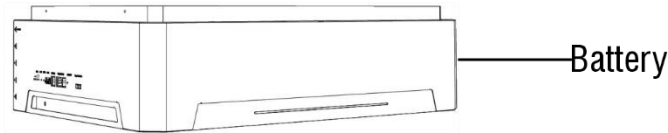
EV-EOH48-15.0U-S1 (15kW)

EV-EOH48-20.0U-S1 (20kW)

### Product Configuration



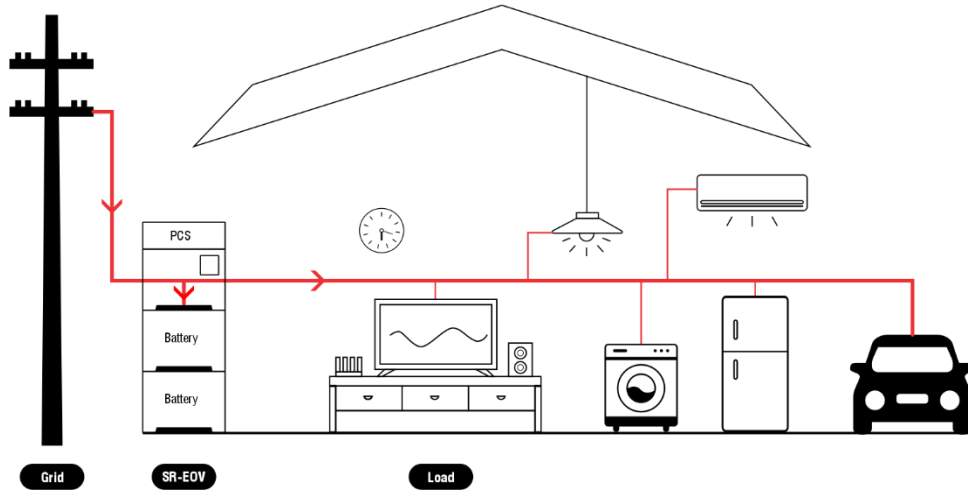
(1) RS485-2	(2) USB	(3) RS485-2	(4) Dry contact
(5) PCS ON/OFF	(6) Cooling fan	(7) Battery positive	(8) AC input port
(9) AC output port	(10) PV input port	(11) AC input switch	(12) AC output switch
(13) PV Input switch	(14) Battery switch	(15) Battery negative	(16) Grounding screw hole



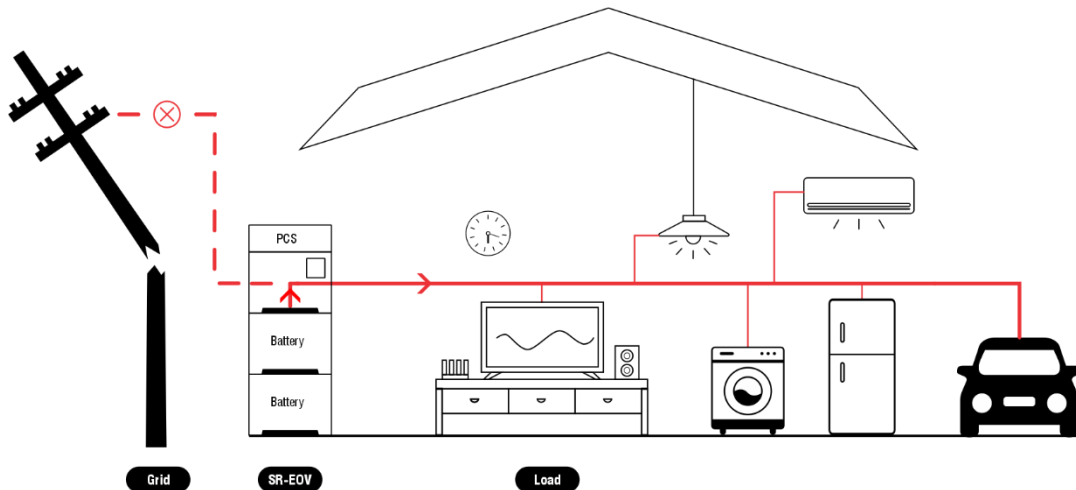
(1) Reset	(2) Address	(3) Dry contact	(4) RS485/CAN
(5) RS232	(6) RS485/RS485	(7) LED (RUM)	(8) LED (ALARM)
(9) LED (ON/OFF)	(10) LED (CAPACITY)	(11) Battery positive	(12) Battery ON/OFF
(13) Battery negative			

## Application Scenarios

### Grid Power Storage

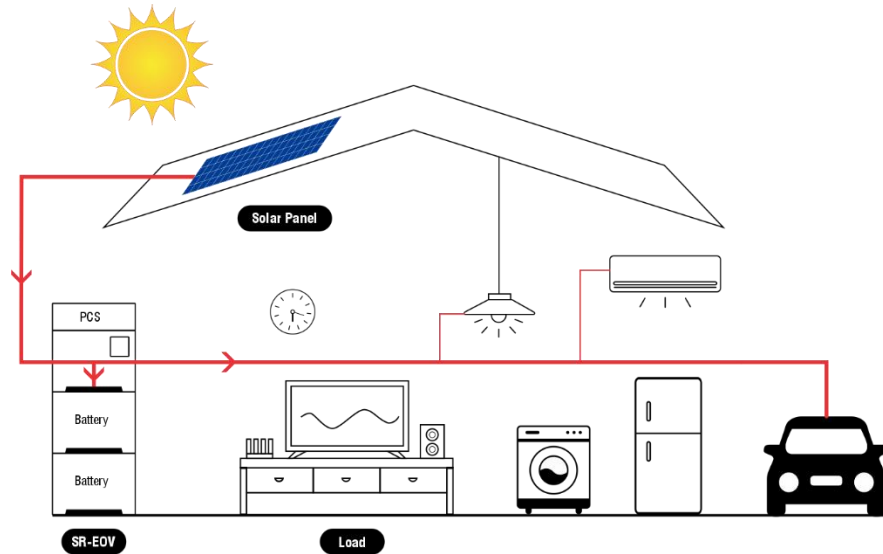


Power Storage Mode

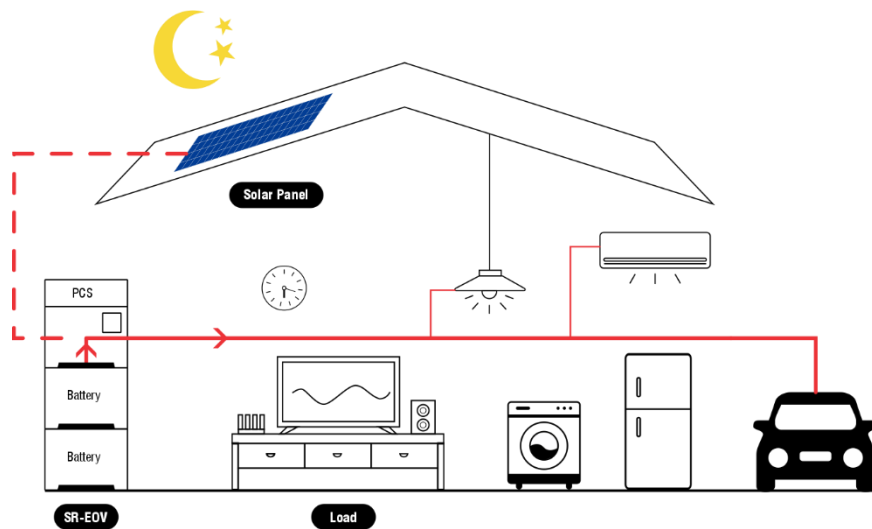


Emergency Power Discharge Mode

## Off-Grid Solar Power Storage

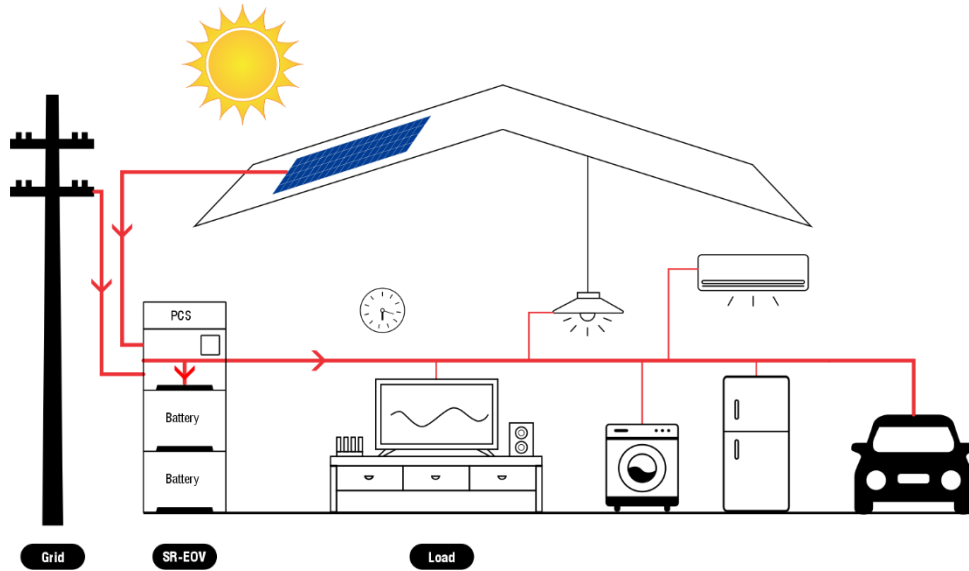


Power Storage Mode

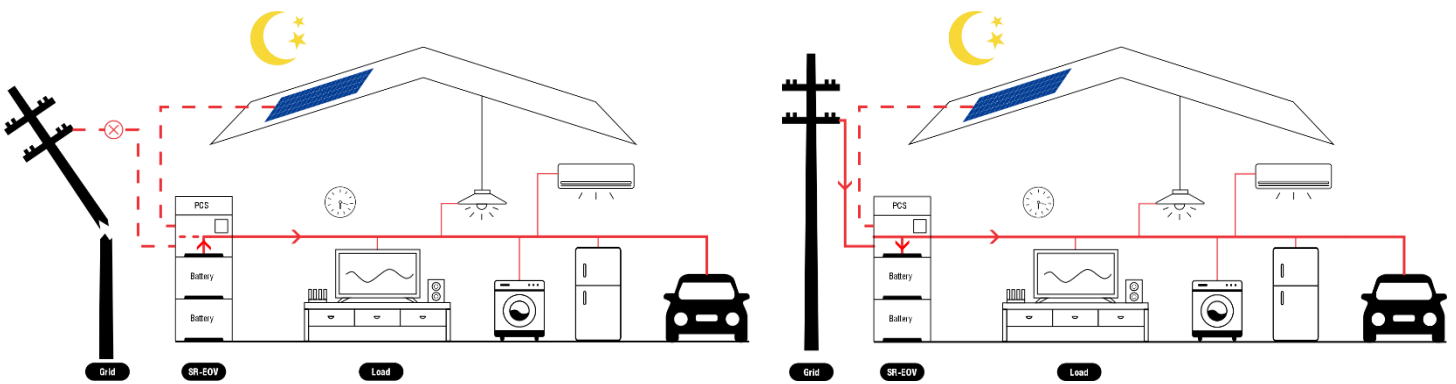


Power Discharge Mode

### Grid and Solar Combined Power Storage



Power Storage Mode



Emergency Power Discharge Mode

Night Power Storage Mode