

# SOLAR STORAGE SYSTEM

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For Residential  
Light Up Smart Life

# About RoadSmart

RoadSmart founded in 2013, headquarter in Shenzhen and factory in Dongguan. Road Smart is a photovoltaic application high-tech enterpris integrates research, production and sales.

Relying on strong design and technology R&D capabilities, Roadsmart provides excellent solar products and solutions for partners around the world.

Now have major product lines: Household energy storage systems, Solar inverter for residential and Photovoltaic modules.

## PRODUCT CONCEPT

- High Quality
- High Economical
- Good Service

## OUR MISSION

- Smart Road, Smart Light, Smart World

## OUR VISION

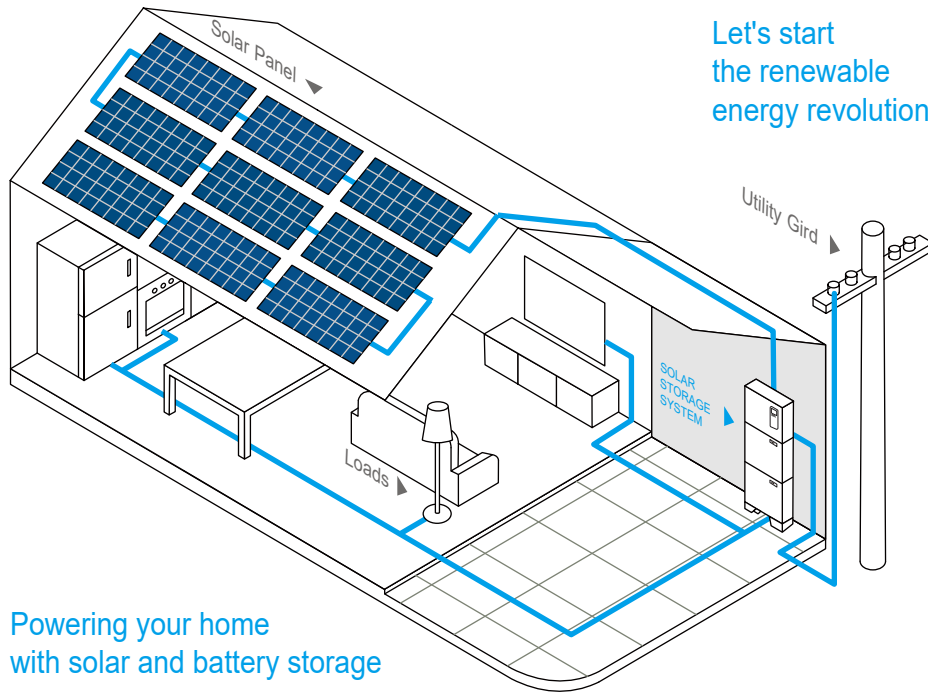
- Devote to become a world-class photovoltaic application pioneer brand

## OUR VALUES

- Provide a platform for customers, employees, shareholders and partners to create and realize dreams, respect and encourage everyone's ability and creativity and creativity

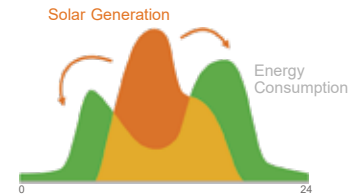


RoadSmart Global Headquarter / Shenzhen , China



Let's start  
the renewable  
energy revolution

Powering your home  
with solar and battery storage



Safe



Plug & play



Uninterrupted



Scalable



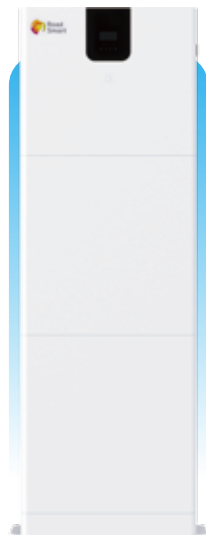
Efficiency

Solar energy is volatile and does not match the daily peak of electricity consumption, so we need Solar Energy Storage System to regulate the energy distribution and convert solar energy into stable AC energy.

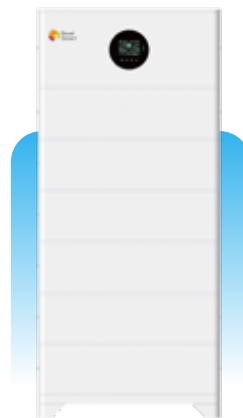
# For Residential



**SunPro** series  
Vertical Storage System



**EOV24V** series  
Vertical Storage System



**EOH** series  
Vertical Storage System



**SunMate** series  
Horizontal Storage System

# For Residential



**SunPro** series  
Wall-Mounted Storage Battery



**EOS** series  
Wall-Mounted Storage Battery



**EOC** series  
Rack Mounted Storage Battery



**SunBox**  
Portable energy storage  
All-in-one machine

# Quick Selection Guide

## Solar Storage System (inv+bat integrated)

Model	Rated Output Voltage <sup>1</sup>	1inv+1bat	1 inv + 2 bat	1 inv + 3 bat	1 inv + 4 bat	1 inv + 5 bat	1 inv + 6 bat	1 inv + 7 bat	1 inv + 8 bat	1 inv + 9 bat
EOV 24V	220Vac single-phase	5kW+5.12kWh	5kW+10.24kWh	5kW+15.36kWh	5kW+20.48kWh	/	/	/	/	/
EOH 48V	220Vac single-phase	/	10kW+10.24kWh	10kW+15.36kWh	10kW+20.48kWh	10kW+25.6kWh	10kW+30.72kWh	10kW+35.84kWh	10kW+40.96kWh	10kW+46.08kWh
SunPro series 48V	120Vac single-phase	5kW+5.12kWh	5kW+10.24kWh	5kW+15.36kWh	5kW+20.48kWh	/	/	/	/	/
	230Vac single-phase									
SunMate series 48V	120Vac single-phase	5kW+5.12kWh	5kW+10.24kWh	5kW+15.36kWh	5kW+20.48kWh	/	/	/	/	/
	230Vac single-phase									

## Solar Storage Battery

Model	Rated Battery Power	1unit	2 units	3 units	4 units	5 units	6 units	7 units	8 units	9 units	16 units
EOS05B	5.12kWh	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	81.92kwh
EOS10B	10.24kWh	10.24kWh	20.48kWh	30.72kWh	40.96kWh	51.2kWh	61.44kWh	71.68kWh	81.92kWh	92.16kWh	163.84kwh
EOC05B	5.12kWh	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	81.92kwh
SunPro-B1610	10.24kWh	10.24kWh	20.48kWh	30.72kWh	40.96kWh	51.2kWh	61.44kWh	71.68kWh	81.92kWh	92.16kWh	163.84kwh
SunPro-B1615	15.36kWh	30.72kWh	30.72kWh	46.08kWh	61.44kWh	76.8kWh	92.16kWh	107.52kWh	122.88kWh	138.24kWh	245.76kwh

## All-In-One Solar Storage System

Series	Models	Output		Battery			Solar Panel			AC Bypass Output	
		Rated Power	Output Phase	Battery Capacity	Rated Voltage	Max. Charge Current	Max. Open circuit voltage	Max. Charge Current	Auto Bypass Rated Output Power	Manual Bypass Rated Output Power	
SunBox	SunBox-S2402S	2.5kW	Single-phase	100AH	25.6V	100A	108V	60A	3kW	5kW	

# SunPro series 48V

**Inverter Module**  
5kW



**Battery Module**  
5.12 kWh per unit  
Up to 4

## INVERTER

ITEMS	SunPro-C4805S
Rated AC Output Power	5,000W
Rated AC Output Voltage	230Vac
Rated AC Output Frequency	50/60Hz
Max.PV Open Circuit Voltage	500Vdc
MPPT Voltage Range	120~450Vdc
Max.PV Input Power	5,000W
Num.Of MPPT	1

## BATTERY

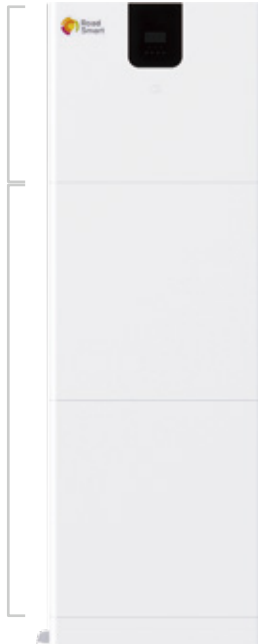
ITEMS	SunPro-B1605
Battery Energy	5.12kWh
Battery Type	Li-ion
Rated Battery Voltage	51.2V
Battery Capacity	100A
Constant Charging Current	100A (1C)
Constant Discharging Current	100A (1C)
Parallel Capacity	1-4
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)

## GENERAL

ITEMS	VALUE
Installation Method	Vertical
Noise	<60dB
Nominal Operation Altitude	<2000m
Communication	RS485/CAN/WIFI
IP Grade	IP20
Dimension(Inverter)	500*145*555mm
Weight(Inverter)	23kg
Dimension(Battery)	570*145*555mm
Weight(Battery)	46.56kg

# EOV series 24V

**Inverter Module**  
3.5kW



**Battery Module**  
5.12kWh per unit  
Up to 2

## INVERTER

ITEMS	RS-EOV24-3.5S-C0
Rated AC Output Power	3,500W
Rated AC Output Voltage	230Vac
Rated AC Output Frequency	50/60Hz
Max.PV Open Circuit Voltage	500Vdc
MPPT Voltage Range	120~450Vdc
Max.PV Input Power	4,000W
Num. Of MPPT	1

## BATTERY

ITEMS	RS-EOV24-5.0A-E1
Battery Energy	5.12kWh
Battery Type	Li-ion
Rated Battery Voltage	25.6V
Battery Capacity	200Ah
Constant Charging Current	150A (0.75C)
Constant Discharging Current	150A (0.75C)
Parallel Capacity	1-4
Cycling Lifespan	5000 (80%DOD,0.5C,25°C)

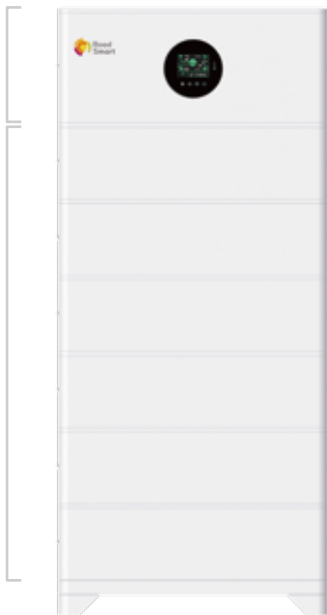
## GENERAL

ITEMS	VALUE
Installation Method	Vertical
Noise	<60dB
Nominal Operation Altitude	<2000m
Communication	RS485/CAN/WIFI
IP Grade	IP20
Dimension(Inverter)	500*555*130mm
Weight(Inverter)	23kg
Dimension(Battery)	600*555*130mm
Weight(Battery)	50kg



# EOH series 48V

**Inverter Module**  
5kW/10kW



**Battery Module**  
5.12kWh per unit  
Up to 9

## INVERTER

ITEMS	RS-EOH10C-220
Rated AC Output Power	10,000W
Rated AC Output Voltage	230Vac (single phase)
Rated AC Output Frequency	50/60Hz
Max.PV Open Circuit Voltage	500Vdc
MPPT Voltage Range	90~280Vac
Max.PV Input Power	5,500W + 5,500W
Num.Of MPPT	1

## BATTERY

ITEMS	RS-EOH05B
Battery Energy	5.12kWh
Battery Type	Li-ion
Rated Battery Voltage	51.2V
Battery Capacity	100Ah
Constant Charging Current	200A (1C)
Constant Discharging Current	200A (1C)
Parallel Capacity	1-9
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)

## GENERAL

ITEMS	VALUE
Installation Method	Horizontal
Noise	<60dB
Nominal Operation Altitude	<2000m
Communication	RS485/CAN/WIFI
IP Grade	IP20
Dimension(1Inverter)	655*353*328mm
Weight(1Inverter)	19.5kg
Dimension(1Battery)	655*353*185mm
Weight(1Battery)	46.6kg

# SunMate series 48V

**Inverter Module**  
5kW



**Battery Module**  
5.12kWhperunit  
Up to 4

## INVERTER

ITEMS	SunMate-C4805S
Rated AC Output Power	5,000W
Rated AC Output Voltage	230Vac
Rated AC Output Frequency	50/60Hz
Max.PV Open Circuit Voltage	500Vdc
MPPT Voltage Range	120~450Vdc
Max.PV Input Power	5,000W
Num.Of MPPT	1

## BATTERY

ITEMS	SunMate-B1605
Battery Energy	5.12kWh
Battery Type	Li-ion
Rated Battery Voltage	51.2V
Battery Capacity	100Ah
Constant Charging Current	100A (1C)
Constant Discharging Current	100A (1C)
Parallel Capacity	1-4
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)

## GENERAL

ITEMS	VALUE
Installation Method	Horizontal
Noise	<60dB
Nominal Operation Altitude	<2000m
Communication	RS485/CAN/WIFI
IP Grade	IP20
Dimension(1Inverter)	710*450*175mm
Weight(1Inverter)	27kg
Dimension(1Battery)	710*450*192mm
Weight(1Battery)	48.70kg

# SunPro series



## BATTERY

ITEMS	SunPro-B1610	SunPro-B1615
Battery Energy	10.24kWh	15.36kWh
Battery Type	Li-ion	Li-ion
Rated Battery Voltage	51.2V	51.2V
Battery Capacity	200Ah	300Ah
Constant Charging Current	150A (0.75C)	150A (0.75C)
Constant Discharging Current	200A (1C)	200A (1C)
Parallel Capacity	1-16	1-16
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)	

## GENERAL

ITEMS	SunPro-B1610	SunPro-B1615
Installation Method	Wall-mounted	Wall-mounted
Communication	RS485/CAN/WIFI USB/Bluetooth	RS485/CAN/WIFI USB/Bluetooth
IP Grade	IP30	IP30
Dimension(Battery)	555*166*926mm	555*260*862mm
Weight(Battery)	90kg	113kg

# EOS series 48V



## BATTERY

ITEMS	RS-EOS05B	RS-EOS10B
Battery Energy	5.12kWh	10.24kWh
Battery Type	Li-ion	Li-ion
Rated Battery Voltage	51.2V	51.2V
Battery Capacity	100Ah	200Ah
Constant Charging Current	100A (1C)	150A (0.75C)
Constant Discharging Current	100A (1C)	200A (1C)
Parallel Capacity	1-16	1-16
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)	

## GENERAL

ITEMS	ES-EOS05B	RS--EOS10B
Installation Method	Wall-mounted	Wall-mounted
Communication	CAN / RS485 / USB WiFi / Bluetooth	RS485/CAN/WIFI USB/Bluetooth
IP Grade	IP30	IP65
Dimension(Battery)	460*100*725mm	620*191*1014mm
Weight(Battery)	47kg	88kg

# EOC series 48V

**Battery Module**  
5.12kWhperunit  
Up to 16



## BATTERY

ITEMS	RS-EOC05B
Battery Energy	5.12kWh
Battery Type	Li-ion
Rated Battery Voltage	51.2V
Battery Capacity	100Ah
Constant Charging Current	100A (1C)
Constant Discharging Current	100A (1C)
Parallel Capacity	1-16
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)

## GENERAL

ITEMS	RS-EOC05B
Installation Method	Rack Mounted
Communication	CAN/RS485/USB
IP Grade	IP30
Dimension(Battery)	580*446*120mm
Weight(Battery)	45kg

# SunBox series



## BATTERY

ITEMS	SunBox-S2402S
Battery Energy	2.56kWh
Battery Type	Li-ion
Rated Battery Voltage	25.6V
Battery Capacity	100Ah
Standard Charge current	50A
Max. MPPT Charging Current	60A

## GENERAL

ITEMS	SunBox-S2402S
Communication	USB-Type A
IP Grade	IP20
Dimension	400*400*300mm

# Applications



SunPro series



EOV series



EOS+HF series



SunMate series



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