ROYPOW TECHNOLOGY CO., LTD. has a policy of improving products continuously. All the information in this catalogue is provided for reference only. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice. Trademarks are the property of ROYPOW TECHNOLOGY CO., LTD. or their respective owners. Technical data and illustrations are not binding. We assume no liability for misprints.

Version: February 24, 2025, Off-Grid Energy Storage System



ROYPOW Technology Co., Ltd.

Tel: +86 (0)752-327 9099

Email: sales@roypow.com service@roypow.com marketing@roypow.com

Web: www.roypow.com

Add: ROYPOW Industrial Park, No. 16, Dongsheng South Road, Chenjiang Street, Zhongkai High-Tech District, Huizhou City, Guangdong Province, China

ROYPOW (USA) Technology Co., Ltd.

Tel: +1 512 688 5555 (Texas Office) Email: sales@roypowusa.com Email: service@roypowusa.com

Web: www.roypow.com

Head Office: 5901 Triumph St, Commerce, CA 90040, USA

Texas Office: 2350 Campbell Creek Blvd #100 Richardson, TX 75082, USA

Florida Office: 277 Douglas Avenue, Unit 1004, Altamonte Springs, FL 32714, USA Indiana Office: 5545 W Raymond St, Ste H Indianapolis, IN 46241, USA

Georgia Office: 1150 Cobb International PI NW Ste E, Kennesaw, GA 30152, USA

ROYPOW Technology UK Limited

Tel: +44 (0) 7918 955 940 Email: sales.uk@roypow.com

Add: Regus Green Park, 200 Brook Dr, Reading RG2 6UB, UK

ROYPOW Battery Technology (Pty) Ltd

Email: sales.za@roypow.com

Tel: +27 69 89 55555

Add: 53 Lake Rd, Longmeadow Business Estate, Edenvale, 1609, South Africa

ROYPOW (Europe) Technology B.V.

Email: sales.eu@roypow.com

Tel: +31 702 001 114

Web: www.roypoweurope.com

Add: K.P. van der Mandelelaan 84, 3062 MB Rotterdam,

The Netherlands

ROYPOW Australia Technology Pty Ltd

Email: sales@roypowtech.com.au

Tel: +61 29185 0814

Web: www.roypowtech.com.au

Add: Suite 803a, 18 Orion Road, Lane Cove, NSW, 2066, Australia

ROYPOW Technology GmbH

Tel:+49 (0) 176 2358 8956 Email: sales.de@roypow.com Web: www.roypow.gmbh Add: Rosa-Parks-Straße 4, 64295 Darmstadt, Germany

ROYPOW株式会社

Tel: +81 090 7092 6969

Email: info@roypow.co.jp Web: www.roypow.co.jp

Add: 〒271-0094 千葉県松戸市上矢切299-7

ROYPOW Technology Co., Ltd (Korea)

Tel:1555-2016

Email: sales.kr@roypow.com

Add: 2405, GIDC Gwangmyeong station A Dong, 43 Iljik-ro, Gwangmyeong-si, Gyeonggi-do, Korea



ROYPOW For One-stop New Energy Solutions

- R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions
- Fully automatic production lines, a full range of test equipment and an advanced MES
- Covering Low-Speed Vehicles' Batteries, Industrial Batteries, as well as Residential ESS, Commercial & Industrial ESS, and Mobile ESS
- Self-development of power electronics technologies, including PCS, BMS, and EMS



750+ Employees

190+ R&D People

105,000 m² Headquarters Floor Area

2,500 m² Testing Center

231 Patents

| Quality Control Certificates:

Environmental Management System:

ISO 14001:2015

✓ Occupational Health and Safety Management System:

ISO45001:2018

Quality Management System: ISO 9001:2015, IATF16949:2016 ✓ Information Security Management System:

ISO/IEC 27001:2022

Social Accountability Management System:

SA8000:2014

✓ Hazardous Substance Process Management:

IECQ QC 080000



| Product Certifications:

UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741





FCC, IEC/EN 61000-6, BS EN IEC 61000-6

IEEE 1547





IEC 60730, ISO 13849-1

IEC 62619







EN 62477, EN 62040, (EU) 2023/1542, EN 62109-1, EN 62109-2



RoHS Directive 2011/65/EU & (EU) 2015/863

R&D and Manufacturing Highlights

As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.









Global Sales and Service Network



Timely Delivery





ROYPOW has comprehensively unfolded its overseas market layout to ensure the localization of R&D, manufacturing, marketing and service, becoming one of your most reliable and valuable partners.



Upgrading to New Technology, with Our Turnkey Solutions.

With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

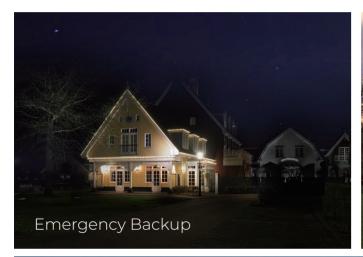
- > Low-speed Vehicle Batteries
- > Battery Systems for Off-highway Applications
- Residential Energy Storage Systems
- > Mobile Energy Storage Systems

- > Industrial Batteries
- > Battery Systems for Emerging Applications
- Commercial & Industrial Energy Storage Systems
- Motors, Controllers and Chargers

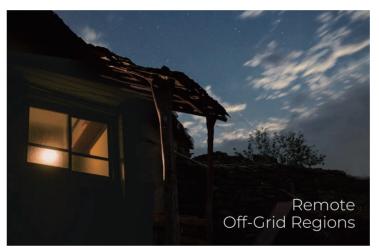


VersatileOff-Grid System

Ideal for powering homes, remote cabins, rural areas as well as the regions where the grid access is limited, unavailable, or unreliable. Go off the grid with peace of mind.















3 4



Off-Grid Residential Energy Storage System

Integrating a high-capacity battery pack with a performance inverter, the ROYPOW Off-Grid Residential Energy Storage System offers a reliable and efficient solution for homes seeking energy resilience.

It ensures a continuous power supply from renewable sources, even during grid outages, empowering users with stable energy and peace of mind.

ROYPOW System Includes:



LiFePO₄ Batteries

ROYPOW LiFePO₄ battery pack is a safe and efficient solution for storing excess solar energy, reducing costs, increasing energy independence, and providing backup power for your home.

Up to **16** units in parallel

Capacity range: 5.1 ~ 81.6 kWh

>6,000 times of cycle life

10 IP65 ingress rating

Built-in hot aerosol
fire extinguishing
system



5kW / 6.5kW / 10kW Solar Inverter

ROYPOW solar inverter offers a dependable solution for converting solar energy into usable power, optimizing energy consumption, and enhancing system performance, while ensuring smooth operation for your home.

99.9% max. MPPT tracking efficiency

Up to **6** unit in parallel

Three phase available parallel connection

Generator input

Solar part



Inverter Model	R5000S-UP-120V	R6500S-US	R10000S-US
Max.PV Power	5.5 kW	11 kW	11 kW
MPPT Voltage Range	120~450 V	150 ~450 V	125 ~425 V
Max. Input Current per MPPT	22 A	18 A / 18 A	22 A / 22 A
Number of MPPT	1	2	2
405W Solar Panel	14 pcs (7 s 2 p)	28 pcs (7 s 4 p)	28 pcs (7 s 4 p)
550W Solar Panel	10 pcs (5 s 2 p)	20 pcs (5 s4 p)	20 pcs (5 s 4 p)
605W Solar Panel	8 pcs (8 s 1 p)	16 pcs (8 s2 p)	16 pcs (8 s 2 p)
660W Solar Panel	8 pcs (8 s 1 p)	16 pcs (8 s2 p)	16 pcs (8 s 2 p)

Battery part



Battery Model	2*RBmax5.1L2	3*RBmax5.1L2	4*RBmax5.1L2
Nominal Energy	10.24 kWh	15.36 kWh	20.48 kWh
Usable Energy	9.58 kWh	14.37 kWh	19.16 kWh
Operating Voltage		44.8 ~ 56.8 V	
Max. Discharge Current		200 A	
Min. Continuous DC Discharge Power	8.9 kW	8.9 kW	8.9 kW



Inverter Model	R5000S-UP-120\	/ R6500S-US	R10000S-US
Rated Power	5 kW	6.5 kW	10 kW
Overload	105%	% <load≤115%@10 115%<load<="" min.="" td=""><td>d≤125%@ 1 min</td></load≤115%@10>	d≤125%@ 1 min
Rated Voltage	120 V (L-N)	120 V (L-N) / 240 V, (L1 / L2 / N)	120 V (L-N) / 240 V, (L1 / L2 / N)
Frequency		60 Hz	
Output Current	41.7 A	27 A	41.7 A
Battery Model	2*RBmax5.1L2	3*RBmax5.1L2	4*RBmax5.1L2
Usable Energy	9.58 kWh	14.37 kWh	19.16 kWh
To Load	<5 kW	<6.5 kW	<10 kW/8.9 kW



Inverter Model	R5000S-UP-120V	R6500S-US	R10000S-US
Max. Mains/Generator Charging Current	40 A	80 A	120 A
Battery Charging Voltage	48 V	48 V	40-58 V
Mains/Generator Input Voltage Range	90-140 V	65-140 V	90-140 V
Frequency	60 Hz	60 Hz	60 Hz
Only Mains/DG Charge Power	1.9 kW	3.84 kW	5.76 kW
2*RBmax5.1L2 Charging Time	<5 hrs	<2.5 hrs	<2 hrs
3*RBmax5.1L2 Charging Time	<7.5 hrs	<4 hrs	<3 hrs
4*RBmax5.1L2 Charging TIme	<10 hrs	<5.5 hrs	<3.5 hrs

Model	1*RBmax5.1L	2*RBmax5.1L2	3*RBmax5.1L2	4*RBmax5.1L2	5*RBmax5.1L2	6*RBmax5.1L2	7*RBmax5.1L2	8*RBmax5.1L2
Nominal Energy (kWh)	5.12	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Usable Energy (kWh)	4.79	9.58	14.37	19.16	23.95	28.74	33.53	38.32
Scalability (kWh)				Max. 16	in parallel, Max. 81k	κWh		
Nominal Charge/ Discharge Current	(A) 50/50	100/100	150 / 150	200/200	250 / 250	300/300	350 / 350	400 / 400
Max. Charge/ Discharge Current	(A) 100/100	100 / 200	150 / 200	200/200	250 / 400	300 / 400	350 / 400	400 / 400
Cell type				Lithium iron pl	nosphate (LFP)			
Operating voltage	range (V)			44.	8 ~ 56.8			
Nominal voltage (V	")				51.2			

Model	R6500S-US	R10000S-US			
PV Input			Herene		
Max. PV Input Power	10000 W	11000 W			
Max. DC Voltage	550 V	500 V			
MPPT Voltage Range	150 V - 450 V	125 V - 425 V			
Max. Input Current	18 A / 18 A	22 A / 22 A			
Number of MPPT	2	2			
Battery Input					
Battery Type	Lead-acid / LFP	Lead-acid / LFP			
Rated Voltage	48 V	48 V			
Voltage Range	40 V - 60 V	40 V - 60 V			
Max. MPPT Charging Current	140 A	200 A			
Max. Mains/GeneratorCharging Current	80 A	120 A			
Max. Hybrid Charging Current	140 A	200 A			
AC Input					
Input Voltage Range	65-140 VA	90-140 VA			
Frequency Range	50 Hz / 60 Hz	50 Hz / 60 Hz			
Bypass Overload Current	40 A	63 A			
AC Output					
Rated Output Power	6500 W	10000 W			
Max. Peak Power	13000 W	20000 W			
Rated Output Voltage	120/240Vac (Sp	olit Phase/Single Phase)			
Load Capacity of Motors	4HP	6HP			
Rated AC Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz			
Waveform	Pure Sine Wave	Pure Sine Wave			
Switch Time	10 ms	10 ms			
Efficiency					
MPPT Tracking Efficiency	99.90%	99.9%			
Max. Efficiency (Battery)	93%	92%			
General Specifications					
Dimension (L x W x H)	584.6 x 410 x 133 mm (23.0 x 16.14 x 5.24 inch)	620 x 445 x 130 mm (24.41 x 17.52x 5.12 inch)			
Weight	18.9 kg (41.66 lbs.)	27 kg (59.52 lbs.)			
nstallation	V	Vall-Mounted			
Environmental Temperature Range	-10~55°C, >45°C de	rated (14~131°F, >113°F derated)			
Max. Altitude	>2,000m	/ >6,561.68 ft Derating			
Ingress Rating		IP20			
Cooling Mode		Fan			
Noise	<60dB				
Display Type	LCD Display				
Communication	Wi-	Fi / RS485/CAN			

Model	1*RBmax5.1L	2*RBmax5.1L2	3*RBmax5.1L2	4*RBmax5.1L2	5*RBmax5.1L2	6*RBmax5.1L2	7*RBmax5.1L2	8*RBmax5.1L2
Weight (Kg/lbs.	48.5 Kg 106.9 lbs.	94.3 Kg 207.89 lbs.	140 Kg 308.64 lbs.	185.7 Kg 409.39 lbs.	234.3 Kg 516.54 lbs.	280 Kg 617.29 lbs.	325.7 Kg 718.04 lbs.	371.4 Kg 818.79 lbs.
Dimensions (W × D × H mm / inch)	650x240x460 mm 25.6 x 9.5 x 18.1 inch	650x240x790 mm 25.6x9.4x31.1 inch	650x240x1120 mm 25.6x9.4x44.1 inch	650x240x1450 mm 25.6x9.4x57.1 inch	650x240x790 + 650x240x1120 mm 25.6x9.4x31.1 inch+ 25.6x9.4x44.1 inch	650x240x1120 + 650x240x1120 mm 25.6x9.4x44.1 inch+ 25.6x9.4x44.1 inch	650x240x1120 + 650x240x1450 mm 25.6x9.4x44.1 inch+ 25.6x9.4x57.1 inch	
Operating temperature (°F/	/°C) [1]	Charge: 32 ~ 131°F (0 ~ 55°C), Discharge: 4 ~ 131°F (-20 ~ 55°C)						
Storage tempera	ature (°F/°C)	≤1 month: -4 ~ 113°F (-20 ~ 45°C), >1 month: 32 ~ 95°F (0 ~ 35°C)						
Installation locat	ion		Indoo	r/Outdoor, Floor sta	anding or Wall mou	nted		
Communication		CAN, RS485						
Relative humidit	У	O ~ 95%						
Max. altitude (m	/ ft.)	4000 m / 13,123 ft (>2,000 m / >6,561.68 ft derating)						
Ingress rating		IP 65						
Certification	ı		IEC 62619, UL	1973, EN 61000-6-1,	EN 61000-6-3, FCC F	Part 15, UN38.3		

Model	R5000S-UP-120V	
PV Input		Manne
Max. PV Input Power	5500 W	
Max. DC Voltage	500 V	
MPPT Voltage Range	120 V-450 V	
Max. Input Current	22 A	
Number of MPPT	1	
Battery Input		
Battery Type	Lead-acid / LFP	
Rated Voltage	48 V	
Voltage Range	40V-60 V	
Max. MPPT Charging Current	100 A	
Max. Mains/GeneratorCharging Current	40 A	
Max. Hybrid Charging Current	100 A	
AC Input		
Input Voltage Range	90-140 VA	
Frequency Range	50 Hz / 60 Hz	
Bypass Overload Current	63 A	
AC Output		
Rated Output Power	5000 W	
Max. Peak Power	10000	
Rated Output Voltage	120 Vac((L/N/PE Single Phase)	
Load Capacity of Motors	4HP	
Rated AC Frequency	50 Hz / 60 Hz	
Waveform	Pure Sine Wave	
Switch Time	10 ms	
Efficiency		
MPPT Tracking Efficiency	99.90%	
Max. Efficiency (Battery)	92%	
General Specifications		
Dimension (L x W x H)	446.9 x 350 x 133 mm (17.59 x 13.78 x 5.24 inch)	
Weight	14 kg (30.86 lbs.)	
Installation	Wall-Mounted	
Environmental Temperature Range	-10~55°C,>45°C Derated (14~131°F, >113°F Derated)	
Max. Altitude	>2,000m / >6,561.68 ft Derating	
Ingress Rating	IP20	
Cooling Mode	Forced Air Cooling with Adjustable Air Speed	
Noise	<60dB	
Display Type	LCD Display	

Wi-Fi/RS485

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions



Off-Grid Vehicle-Mounted Energy Storage System

For vehicles parked in unconventional locations without convenient access to the mains grid, a reliable off-the-grid power system is essential.

ROYPOW's vehicle-mounted system, featuring high-capacity batteries with fast charging, an efficient inverter, and an intelligent energy monitoring and management system, is the ideal, cost-effective solution.

It meets basic power needs for lighting, refrigeration, and other electric appliances and reduces generator usage, enabling off-grid living with modern conveniences while reducing carbon footprint.



LiFePO₄ Batteries

ROYPOW LiFePO₄ battery pack provides a robust and reliable power source for the off-grid system to run appliances on the vehicle without running the generator.

Up to 8 units in parallel

Capacity range: **5.1 ~ 40.8** kWh

>6,000 times of cycle life

Automotive-grade, vibration-resistant cells

Built-in hot aerosol **fire extinguishing** system

IP65 ingress rating



Solar Inverter

Whether camping or traveling, ROYPOW solar inverters are a valuable addition to any RV setup, providing an efficient solution for a reliable power supply for all your devices and appliances to enhance your adventures.

6.5 kW / 10 kW optional

99.9% max. MPPT tracking efficiency Up to 6 in parallel

Three phase available via parallel connection

Generator input



Energy Management System (EMS)

It collects, manages and coordinates equipment in the region, ensuring the safe, stable, and efficient operation of the system.

Energy allocation management

Connection via Wi-Fi hotspot

Remote control

IP65 ingress rating

- 11

Park Models

Empower park models with sustainable, uninterrupted power, enhancing convenience and reducing reliance on grid power.



Trailers

Enjoy the reliable power that supports your new adventures and hit the road with peace of mind.



LiFePO ₄ Battery	Rapypow □
Module	XBmax 5.1L
Normal Voltage	51.2V
Normal Capacity	100Ah
Voltage Range	40-58.4V
Max Continuous Charge Current	50A
Peak Discharge Current	100A
Cycle Life	> 6,000
Ingress Protection	IP65
Cooling mode	Natural convection
Dimension	20.15 x 14.88 x 8.26 inch
Weight	99.2 lbs
Warranty	5 Years

Solar Charger Inverter	
Module	R10000S-US
AC Output Power	10,000W
Max. Peak Power	20,000W
AC Output Voltage	120/240Vac, 50 Hz / 60 Hz
AC Input Voltage	65-140 VA
Ingress Protection	IP20
Support	Diesel Generator
Battery Rated Input	48V
Max. AC/Generator Charging Current	120A
Dimension	24.41 x 17.52x 5.12 inch
Weight	59.52 lbs
Warranty	2 Years

Solar Charger Inverter		
Module	R6500S-US	RADIFON
AC Output Power	6,500W	
Max. Peak Power	13,000W	
AC Output Voltage	120/240Vac, 50 Hz / 60 Hz	
AC Input Voltage	65-140 VA	
Ingress Protection	IP20	
Support	Diesel Generator	
Battery Rated Input	48V	
Max. AC/Generator Charging Current	80 A	
Dimension	23.0 x 16.14 x 5.24 inch	
Weight	1.66 lbs	
Warranty	2 Years	

	* 3 9
Energy Management	t System(EMS)
Display Size	XTouch7
Features	7 inch
Ingress Protection	Energy allocation management, Wi-Fi hotspot, Remote control
Dimension	IP65
Weight	7.16 x 6.61 x 1.42 inch
Warranty	2.2 lbs
	2 Years

13



Off-Grid Solar Air Conditioner System

For areas where grid power sources are unstable or unavailable but require a reliable power source for their cooling needs, the ROYPOW Off-Grid Solar Air Conditioner System is the way to go.

It features a high-performance DC inverter air conditioner paired with an efficient MPPT and reliable battery energy storage, ensuring optimal cooling and comfort.

ROYPOW System Includes:



DC48V Inverter Air Conditioner

Deliver efficient cooling and operate quietly, creating a comfortable environment with long-lasting performance.

14 hours+ of runtime

12,000 BTU/h cooling capacity

As low as 35dB noise

>15 EER high efficiency



MPPT Solar Charge Controller

Efficiently optimize energy capture from solar panels and ensure maximum power transfer to the batteries, while providing comprehensive charging and discharging protection.

Up to 99% MPPT efficiency

Support solar panel 2 in series / more in parallel



LiFePO₄ Batteries

Designed for efficiency, reliability, and safety, the batteries ensure an uninterrupted power supply to run the air conditioner throughout the night.

Up to 16 units in parallel

Capacity range: 5.1kWh ~ 81.6kWh

>6,000 times of cycle life

10 years of warranty



Recommended Solar Panels

3PCS of 480W solar panels

Total 1500W solar panel power

15



System Specification

Model RBmax5.1L-F

Electric Data		3
Nominal Energy (kWh)	5.12	
Usable Energy (kWh)	4.79	
Cell Type	LFP (LiFePO ₄)	
Nominal Voltage (V)	51.2	
Operating Voltage Range (V)	44.8 ~ 56.8	
Max. Continuous Charge Current (A)	100	
Max. Continuous Discharge Current (A)	100	

General Data

Weight (Kg / lbs.)	48 Kg / 105.8 lbs.	
Dimensions (W \times D \times H) (mm / inch)	500 x 167 x 490 mm / 19.69 x 6.57 x 19.29 inch	
Operating Temperature (°C)	0 ~ 55°C (32 ~ 131°F) (Charge), -20 ~ 55°C (4 ~ 131°F) (Discharge)	
Storage Temperature (°C)Delivery SOC State (20~40%)	>1 Month: 0 ~ 35°C (32 ~ 95°F); ≤1 Month: -20 ~ 45°C (-4 ~ 113°F)	
Relative Humidity	≤ 95%	
Max. Altitude (m)	4000 m / 13,123 ft (>2,000 m / >6,561.68 ft derating)	
Protection Degree	IP 20	
Installation Location	Ground-Mounted; Wall-Mounted	
Communication	CAN, RS485	
- 101 1		

Certification

EMC	CE	Transportation	UN38.3

Warranty

Warranty (Years) 10 Years

Model	1*RBmax5.1L-F/FA	2*RBmax5.1L-F/FA	3*RBmax5.1L-F/FA	4*RBmax5.1L-F/FA	5*RBmax5.1L-F/FA	6*RBmax5.1L-F/FA	7*RBmax5.1L-F/FA	8*RBmax5.1L-F/FA
Nominal Energy (kWh)	5.12	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Usable Energy (kWh)	4.79	9.58	14.37	19.16	23.95	28.74	33.53	38.32
Scalability (kWh)		Max. 16 in parallel, Max. 81kWh						
Nominal Voltage (V)					51.2			
Operating Voltage Range (V)					44.8-56.8			
Nominal Charge/ Discharge Current ((A) 50/50	100 / 100	150 / 150	200 / 200	250 / 250	300/300	350 / 350	400 / 400
Max. Charge/ Discharge Current(A) 100/100	100 / 200	150 / 300	200 / 400	250 / 400	300 / 400	350 / 400	400 / 400

Model	XKF-12-FTT	
Rated input voltage	DC 48 V	E.M.
Inverter / Non-inverter	Inverter	
Mode	Cooling / Heating	
Refrigerating capacity	5,000 ~ 12,000 BTU / h (1,500 ~ 3,500 W)	
Refrigerating power	300 ~ 830 W	
Rated cooling capacity	12,000 BTU / h (3,520 W)	
Rated cooling power	750 W	
Energy efficiency ratio (EER)	15 BTU / w.h	
Max. rated input current	25 A	
Heating capacity	2,700 BTU / h (800 W)	
Input power of heating	800 W	
Air flow	≥294 CFM (≥500 m³/h)	
Temperature range	61°F - 86 °F (16°C - 30°C)	
Refrigerant	R410A	
Outdoor unit waterproof level	IPX4	
Indoor unit noise level	35 dB	
Outdoor unit noise level	52 dB	
Indoor unit dimension (L x W x H)	26.1 x 7.7 x 11.7 inch (663 x 197 x 296 mm)	
Outdoor unit dimension (L x W x H)	35.5 x 9.4 x 20.4 inch (902 x 240 x 519 mm)	
Indoor / outdoor unit weight	13.2 lbs (6.0 kg) 66.1 lbs (30.0 kg)	

Model	Xm4830AL
PV Input	
Max. PV Open Circuit Voltage	150 Vdc
MPPT Operating Voltage Range	(Battery Voltage + 2 V) ~ 110 Vdc
Max. PV Input Power	400 W / 12 V, 800 W / 24 V, 1,200 W / 36 V, 1,600 W / 48 V
Battery	
Battery Type	Lead-acid / Lithium-ion / User-defined
Rated Voltage	12/24/36/48 Vdc
Voltage Range	8 ~ 64 Vdc
Rated Charging Current	30 A
MPPT Charging Mode	Buck Charging
Load	
Load Type	Resistive Load, Inductive Load, Capacitive Load
Rated Load Voltage	Equal to Battery Voltage 12 / 24 / 36 / 48 V
Rated Load Current	30 A
Load Operation Mode	Light Control, Light and Time Control, Manual Mode (Default), Debugging Mode, Normally Oper
Efficiency	
MPPT Tracking Efficiency	>99%
Max. Charging Conversion Efficiency	85% ~ 98% (10% ~ 100% of Load Power)
Communication	
TTL	Baud Rate 9,600 kps
RS485	RS485 Communication Port
General Specifications	
Weight	7.94 lbs. / 3.6 kg

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions

10.24 x 8.5 x 3.88 inch / 260 x 216 x 98.5 mm

-35°C ~ 65°C / -31°F ~ 149°F

17

Dimension

Ingress Rating

Operating Temperature Range