Version: June 25, 2026, RV

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ALL-ELECTRIC 48V RV ENERGY STORAGE SYSTEM

Power your home
where you park it

ROYPOW,
Your Trusted Partner

Contents

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 Complete Power Solutions for Off-Road Vehicles, Marine Power System, Jobsite ESS, Vehicle-Mounted ESS, and Electric Retrofit Solutions
- Self-development of power electronics technologies, including PCS, BMS, and EMS, as well as motor and controller motion control algorithms

750+ Employees

200+ R&D People

105,000 ㎡ Headquarters Floor Area

2,500 ㎡ Testing Center

364 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	UN 38.3
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

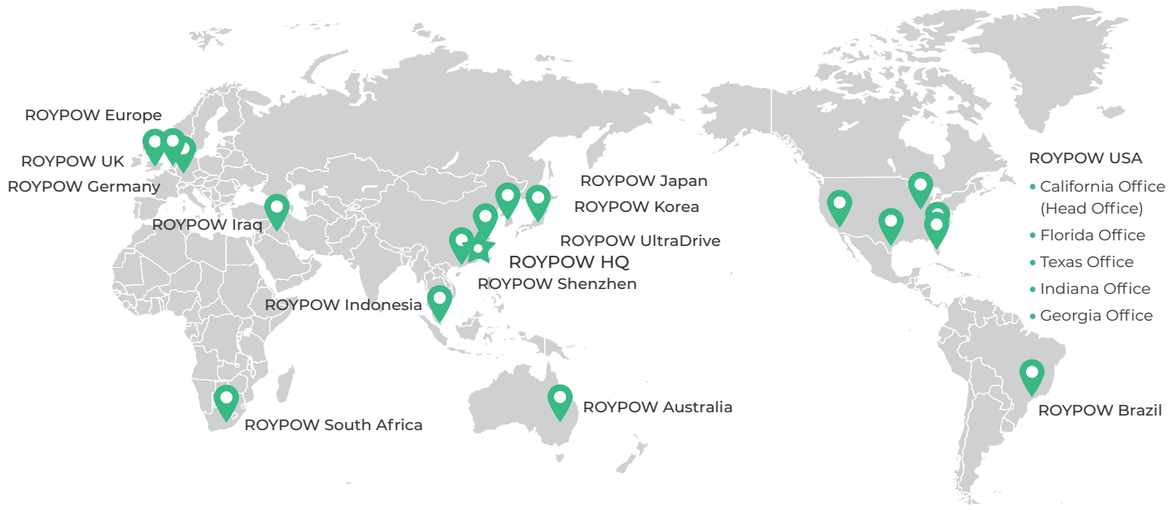
As a result of these investments, ROYPOW is capable of “end-to-end” integrated delivery, making our products out-perform the industry norms.

- Fully Automatic Production Lines
- BMS, PCS, EMS All Designed in House
- All-round Testing
- Advanced MES System

Global Sales and Service Network

- Timely Delivery
- Hassle-free After-sales Service
- Fast Response Technical Support

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:

- Complete Power Solutions for Off-Road Vehicles
- Marine Power System
- Jobsite ESS
- Vehicle-Mounted ESS
- Electric Retrofit Solutions
- Residential and C&I ESS

OFF-GRID LIVING
STARTS TO CHANGE NOW

No need to
research campgrounds with electrical hookups.

No need to
map routes that end your day at a specific location.

...

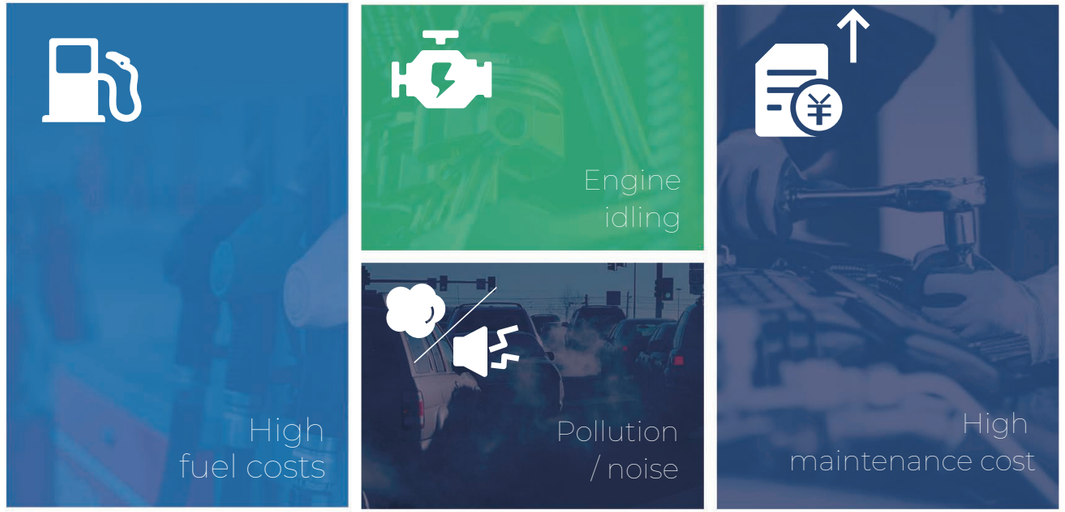
Endless Power to Explore.
More Freedom to Roam.

No matter where your journey takes you, the ROYPOW RV Energy Storage System (ESS) will meet all of your energy needs, allowing you to roam freely and enjoy your caravan experiences for extended periods. With the comfort you would expect from home, you can relax and travel countless miles more.

Automotive-grade | Long run time | Proven safety | Flexible airflow models

5

The Shortcomings
of Traditional Energy Storage Solutions



The New Standard of RV Energy Storage System

Including 48 V Alternator

ONE-STOP SOLUTION

Safe
LFP (LiFePO4) chemistry

No Fume / No Noise / No Emission

Virtually
0 maintenance

Over
6,000 life cycles

Up to
10 years design life

48 v system

5
charging sources

-4°F **-131**°F
operating temperature

ROYPOW RV ESS

Upgrade Your RV / Van Power

Enjoy Your Off-grid Adventures for Years to Come!

This system converts an RV into a tiny mobile home by providing RVers sustainable and independent power for a quiet and peaceful off-grid lifestyle. This system empowers RVers with freedom and confidence to extend and enjoy their adventures on their own terms.

- Customizable options with additional solar panels or all-in-one inverter
- Consistent & enduring power supply to go off-grid for longer
- Fast charging shortens the recharge process to enjoy air conditioner and other electronics more quickly
- Appropriate temperature control & quiet operation for a sound sleep

Multiple Charging Sources

More Versatility
& Flexibility

Alternator

Recharge from the alternator when the RV is running or idling.

Shore power

Recharge from the shore power when the RV is parked and plugged in at a campground.

Solar panel

Recharge from the sun by connecting to the optional solar panel.

Charging station

Get recharged when plugging your RV into a fast charging station.

Diesel generator

For off-grid emergency backup during power shortage in rainy seasons, desert adventures, journeys to isolated areas, and more.

Power Your Caravan Life,

Wherever The Road Takes You.

ROYPOW RV ESS is a fully integrated system that offers the most reliable AC and DC power to run air conditioner and other high power loads in all climate conditions without worrying about power shortage anymore.

Total output less than **3,500 W**

Light bulb | Mobile phone | Mini fridge | Electric stove | Laptop | Pellet grill | Coffee maker | Microwave

Intelligent
Management System

01 Remote Monitoring & Control

- Monitor and manage RV energy storage system from mobile phones anytime and anywhere
- Remotely turn on / off the HVAC system in advance for unrivaled comfort and convenience

02 Wi-Fi Connection Everywhere

- Automatically switch to available network operators globally with built-in wireless data terminal
- Reliable Wi-Fi hotspots are available to deliver the best internet experience for RVers

XTouch7+

Energy Management System (EMS)

The energy management system (EMS) collects, manages and coordinates equipment in the region, ensuring the safe, stable, and efficient operation of the system. It can realize real-time monitoring, coordinated control, and economic operation management, and support functions such as load tracking, photovoltaic power forecasting, and demand-side management.

PDU
Power Distribution Unit

Power Distribution Unit is an essential component of vehicle and marine energy storage systems. Its main function is to distribute electrical currents to various endpoints, connect power supply equipment, and maintain the proper operation of electrical devices.

Easy Wiring & Maintenance

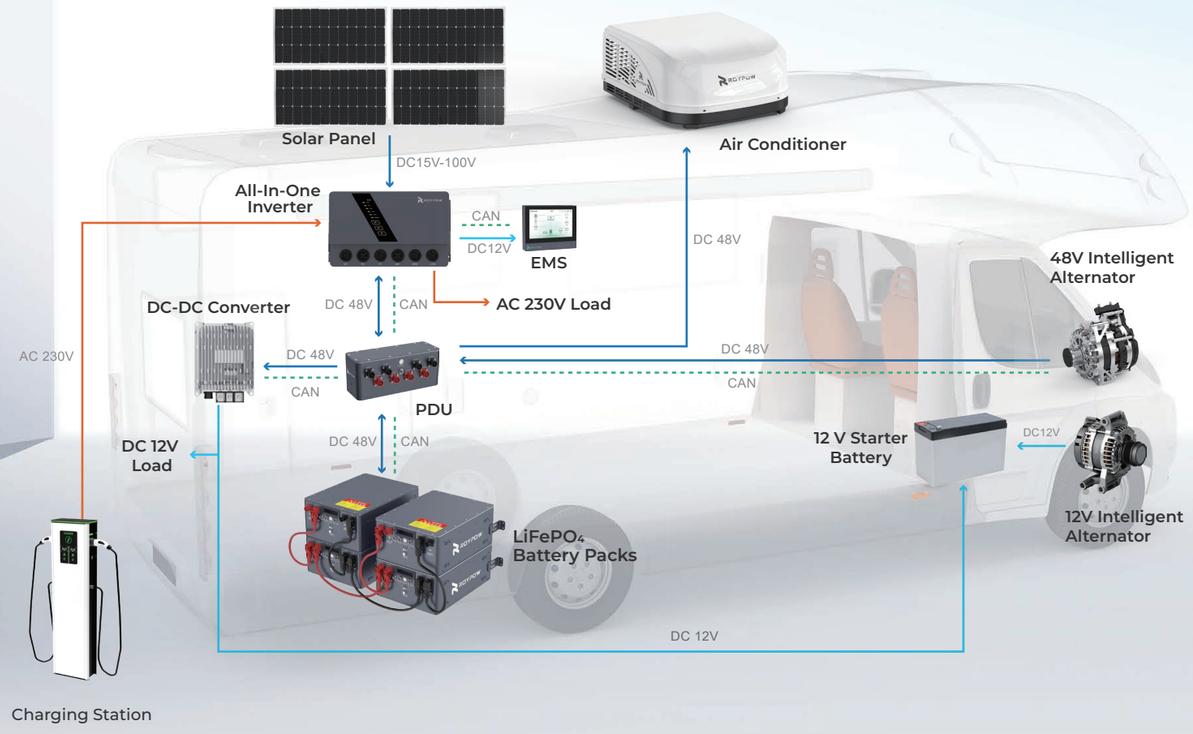
Wall-Mounted, Space-Saving Design

Multiple Outputs for More Loads

Up to 6 Channels for AC Load and 12 Channels for DC Load

Complete Electric System
One-Stop Solution

The electric system captures energy from the RV's alternator or optional solar panel and stores it in independent lithium batteries. This energy is then converted into power for cooling, heating, and electrification for over-the-road sleepers.



RV Energy Storage Packs Included

48 V Intelligent Alternator

Its overall popularity is attributed to its high safety and efficiency, which offers the best off-grid living experience.

Up to **5kW** continuous generated output

Up to **85%** conversion efficiency

Lithium Batteries

It meets the power requirements for RVs without the need to idle or run the generator.

Up to **10** years battery life

0 maintenance

>6,000 life cycles

48V Air Conditioner

With variable speed, it expels the heat out of the RV effectively and runs quietly, creating a cozy resting environment.

Up to **12** Hours Running

15,000 BTU / h Cooling Capacity

15,000 BTU / h Heating Capacity

As Low As **55** dB Noise

DC-DC Converter

The bidirectional DC - DC converter is vibration-tested to ensure it can withstand the rigid over-the-road conditions with high performances retained.

Automotive-grade

Max. efficiency at **95%**

Solar Panel (Optional)

Designed to provide long-lasting durability and performance in the extreme over-the-road conditions.

Foldable

Lightweight

Ultra-thin

All-in-one Inverter

Combined with an inverter, a battery charger, an MPPT solar charge controller, a DC-DC charger, and more into one complete system to reduce components and simplify installation.

ALL IN ONE

Inverter + DC-DC Charger

Battery Charger + DC-DC Converter

+ MPPT Solar Charge Controller

PDU (Power Distribution Unit)

Its main function is to distribute electrical currents to different power supply equipment, and maintain the proper operation of electrical devices.

Maximum Bus Power **17.9** kW / pcs

Maximum Bus Current **350** A

IP65

Parallel Working for Higher Power

EMS (XTouch 7+)

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

Real-time Monitoring

Coordinated Control

Economic Operation Management

48V Rooftop Air Conditioner

Go road tripping with instant comfort

Designed in a compact way with corrosion protections, the RoyPow air conditioner is easy to retrofit, highly efficient, and durable for RV environments. It provides powerful cooling and heating capabilities for maximum comfort.

Up to **12** Hours Running

15,000 BTU / h Cooling Capacity

15,000 BTU / h Heating Capacity

As Low As **55** dB Noise

ECO FRIENDLY R32 REFRIGERANT

Partition in the indoor unit

Use EPP foam. Combine randomly as per the different thicknesses of the vehicle roof. Safe and reliable.

Benefits
All Year Round

Heat insulation for evaporator

Use integral EPP foam that makes the unit easy to dismantle and assemble. It has features of lightweight, impact resistance, and environmental protection, and enables good effect of anti-corrosion, sealing, insulation, and heat protection.

Indoor Unit

There are 4 separate outlets (in different directions) in the indoor unit as options. If there is a built-in duct inside the RV, close the 4 separate outlets to allow the air to blow from the duct.
Thickness of air outlet panel of indoor unit: 50 mm.

Technical Specifications

Model	XKFR15-YTR
Power supply	48V DC
Cooling capacity	5000 ~ 15000 BTU
Heating capacity	6500 ~ 15000 BTU
Cooling input power	500 ~ 1500 W
Heating power	650 ~ 1500 W
EER (Energy Efficiency Ratio)	12 BTU / W.h (3.5 W / W)
COP (Coefficient Of Performance)	13 BTU / W.h (3.8W / W)
maximum power	1600 W
Power supply	35 A
Cooling air volume	382 CFM- (650 m^3 / H)
Heating air volume	382 CFM- (650 m^3 / H)
Noise level	＜55 dB (A) ± 3
Temperature applicable range	14°F / 122°F (-10 ~ 50°C)
Applicable voltage range	40 V ~ 60 V
Net weight	74.7 lbs (33.9 kg)
Product dimensions (L x W x H)	750 x 700 x 350 mm (29.5 x 27.5 x 13.8 inch)
Packaging dimensions (L x W x H)	776 x 734 x 379 mm (30.5 x 28.9 x 14.9 inch)
Cut out (Opening) size	360x 360 mm(14 1/4 x 14 1/4 inch)
Refrigerant	R32 / 1.1 LBS (500 g)

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

Lithium Batteries

Reliable Power for Your Journey

Travel to the most beautiful places with ROYPOW $LiFePO_4$ batteries that are built tough to withstand the most rugged conditions so you can spend more time enjoying the great outdoors and less time worrying about power.

Up to
10 Years
Design Llife

Zero
Maintenance

>6,000
Life Cycles

IP65
Rating

Scalable capacity to fit your power needs

8 In Parallel Maximum

40 kWh In Parallel Maximum

Advantages

Ultra Safe
Multiple protections, thermal & chemical stability

Long Runtime
Longer service life; consistent high performance

High Reliability
Automotive grade lithium ferro-phosphate cells ($LiFePO_4$ cells)

Maintenance Free
No filling of distilled water; no frequent battery replacements

Fast Charging
Can be charged much faster than traditional lead-acid batteries

More Durable
Engineered to resist vibration & shock

Light Weight
Space & weight saving, easy to stack and store

Wide Working Temperature Range
Discharge at -4°F - 131°F (-20°C - 55°C)

Tips: Why Choose LiFePO4 Batteries For RVs?

Except providing longer life, $LiFePO_4$ batteries have higher energy density and are more stable and reliable. They are environmentally "green" and lightweight to reduce the overall weight.

Technical Specifications

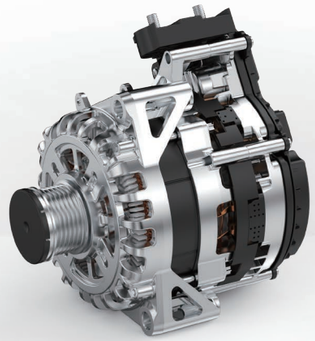
Model	XBmax 5.1L-B	XBmax 5.1L-24-A	XBmax 5.1L-12C
Rated voltage (cell 3.2 V)	51.2 V	25.6 V	12.8 V
Rated capacity (@ 0.5C, 77°F/ 25℃)	100 Ah	200 Ah	400 Ah
Maximum voltage (cell 3.65 V)	58.4 V	29.2 V	14.6 V
Minimum voltage (cell 2.5 V)	40 V	20 V	10 V
Standard capacity (@ 0.5C, 77°F/ 25°C)	≥ 5.12 kWh (support parallel connection up to 8 pcs)		
Continuous discharge / charge current (@ 77°F/ 25℃, SOC 50%, BOL)	100 A / 50 A	200 A / 100 A	200 A / 100 A
Cooling mode	Natural (passive) cooling		
Working range of SOC	5% - 100%		
Ingress protection rating	IP65		
Life cycle (@ 77°F/ 25°C, 0.5C charge, 1C discharge, DoD 50%	> 6,000		
Remaining capacity at the end of life (according to warranty period, driving pattern, temp. profile, etc)	EOL 70%		
Operating temperature — Charging / Discharging temperature	-4 °F ~ 131°F (-20°C ~ 55°C)		
Storage temperature — Short-term (within one month)	-4 °F ~ 131°F (-20°C ~ 55°C)		
Storage temperature — Long-term (within one year)	32 °F ~ 95°F (0°C ~ 35°C)		
Dimensions (L x W x H)	20.08 x 15 x 8.07 inch (510 x 381 x 205 mm)		
Weight	121.25 lbs. (55 kg)		
Certifications	UL, CB, CE-EMC, FCC, RCM, UN38.3 2026		

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries
2. All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions
3. 6,000 cycles achievable if the battery is not discharged below 50% DOD. 3,500 cycles at 70% DoD

UL LISTED CE FC UN38.3

48 V Intelligent Alternator

48 V intelligent generator's overall popularity is attributed to its high safety and efficiency, which offers the best off-grid living experience.



Benefits

2 in 1, Motor Integrated with Controller

Compact and lightweight design, provide powerful acceleration capability and a longer driving range

85% High Overall Efficiency

Permanent magnets and 6-phase hair-pin motor technology provide higher efficiency

Ultra High-Speed Motor

16000rpm high-speed motor provides the potential to increase maximum vehicle speed or to use a higher ratio in the transmission to enhance launch and gradability performance

High Output Performance

15 kW/60 Nm high output of motor, leading technologies in the design of motor and power module to improve electrical and thermal performance

User Preferences Mode

Supporting user to adjust the maximum speed limit, maximum acceleration rate and energy regenerative intensity

Comprehensive Diagnosis & Protection

Voltage and Current monitor & protection, Thermal monitor & derating, Load dump protection, etc.

Battery Protection with CANBUS

Signals and functionalities interaction with the battery by CANBUS, to ensure the safety use and extend the lifetime of battery over the whole life cycle

All Automotive Grade

Rigorous and strictest design, testing and manufacturing standards to ensure high quality

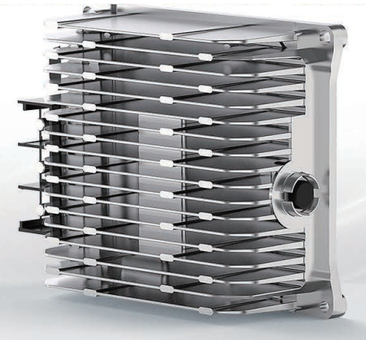
Technical Specifications

Model	XGenMB50Z
Nominal operating Voltage	40V ~ 57.6V
Generator performance	Peak (20s): 12kW@＞4000 rpm, 105℃, Continuous: 5.5kW@＞6,000 rpm, 105℃
Efficiency	Peak: ≥85%
Rated voltage	51.2V for 16s LFP, 44.8V for 14s LFP
Max. operational speed	16,000 rpm
Communication	CAN 2.0B
Motor type	Claw-pole synchronous motor, 6 phases/hairpin stator
Peak motor power	10kW, 20s@105℃
Peak torque	50Nm@20s; 60Nm@2s for hybrid start
Motor overall protection	Motor: IP25; Inverter: IP6K9K
Nominal operating temperature	-40℃ ~ 105℃
Motor diameter	150 D x 188 L mm (without pulley)
Operation mode	Torque control / Speed control / Regenerative mode
Mounting	Mercedes SPRINTER-N62 bracket
Weight	≤16 lbs (7.3 kg)

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

Bidirectional DC-DC Converter

Designed specifically for marine applications, the bidirectional DC - DC converter is vibration-tested to ensure it can withstand the rigid road conditions with high performances retained.



It can achieve

- High efficiency & reduced switching losses
- Rugged design for mobile environments
- Wide operating temperature range -40°F ~ 185°F (-40°C ~ 85°C)

Technical Specifications

Model	XDC2500-12	XDC2500-24
48 V Voltage range	24 V - 36 / 48 / 54 V - 57 V	38 V-40 / 48 / 54 V - 58 V
Voltage range	8 V - 8.5 / 14 / 15.5 V - 16 V	24 - 28 - 30 V
Max. Rated Power	Buck: 2.5 kW (178 A @14 V), Boost: 2 kW (41 A @48 V)	Buck: 2.5 kW (89 A @28 V), Boost: 2 kW (41 A @48 V)
Over-temperature protection range	248°F (120°C)	
CAN communication	CAN communication	
Wake-up type	KL15	
Precharge time	150ms	300ms
Working temperature range	1. At temperature below -40°F (-40°C), the output is turned off. 2. At temperature between 104°F - 140°F (40°C - 60°C), full power output is reached. 3. At temperature between 140°F- 185°F (60°C - 85°C), linear reduced output of 2,500 W - 0 W is provided. 4. At temperature above 185°F (85°C), output is turned off.	
Ingress protection rating	IP67	
Weight	< 6.6 lbs (3 kg)	
Dimension	9.4 x 6.9 x 3.0 inch (238 x 175 x 75 mm)	

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

All-in-one Inverter

Featuring higher response speed, reliability, and industrial standards, this all-in-one hybrid inverter integrates an inverter, a battery charger, an MPPT solar charge controller, a DC-DC charger, and more into one complete system, largely simplifying RV application installation.

Features

Around **30%** MPPT Energy Efficency Improvement

94% Maximum Inverter Efficiency

All-in-one Design

- Seamless switching of uninterrupted power supply to meet electricity demand in versatile scenarios

Power Saving

- Power saving mode automatically reduces power consumption at zero-load

Instant Viewing of Operation

- Support energy data and settings monitoring via the app in real time

Multiple Safety Protections

- Short circuit protection, overload protection, reverse polarity protection, and so on

ALL IN ONE

- Inverter
- \+ Battery Charger
- \+ MPPT Solar Charge Controller
- \+ DC-DC Charger
- \+ DC-DC Converter

Technical Specifications

Model	X5000S-E	X5000S-U
Input (PV)		
Recommend. Max. Power (W)		1000
MPPT Range (V)		15-100
Generator (DC)		
Input Voltage (V)		12-60
Input Current (A)		70
Input (Battery)		
Compatible Battery Type		Lithium-ion
Nominal Battery Voltage (Full Load) (V)		51.2
Battery Voltage Range (V)		40-60
Max. Charge/Discharge Current (A)		80/120
Max. Charge/Discharge Power (W)		4500/5600
Input (Grid/Generator)		
Nominal Voltage (V)	220V/230V/240V, 50HZ	120V/240V (Split Phase) / 208V (2/3 Phase) / 120V (Single Phase), 60HZ
Output (AC)		
Nominal Power (Inverter Mode) (W)		5000
Nominal Power (Bypass Mode) (W)		7200
Output (DC1)		
DC Output Voltage (V)		12
Maximum Power (W)		400
Efficiency		
Max. Efficiency (PV to Battery) (%)		96
Max. Charge Efficiency (Battery to AC) (%)		94
Max. Charge/Discharge Efficiency (AC to Battery) (%)		94
General		
Temp. Range (℃)		-25 ~60 (>45 derating)
Max. Operation Altitude (m)		4000 (>2000 derating)
Protection		IP21
Noise Emission (dB)		<45
Humidity (%)		0~95, Non-condensing
Cooling		Fan Cooling
Display		LED+APP
Communication		CAN
W x H x D (inch)		20.5 x 1.8 x 5.7
Weight (kg)		18

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

PDU
Power Distribution Unit

Power Distribution Unit is an essential component of vehicle and RV energy storage systems. Its main function is to distribute electrical currents to various endpoints, connect power supply equipment, and maintain the proper operation of electrical devices.

- Easy Wiring & Maintenance
- Wall-Mounted, Space-Saving Design
- Multiple Outputs for More Loads
- Up to 6 Channels for AC Load and 12 Channels for DC Load

Technical Specifications

Model	Xsmart-PDU
General Specifications	
Dimension (L x W x H)	14.57 x 8.66 x 3.94 inch / 370 x 220 x 100 mm
Weight	13.23 lbs / 6 kg
IP Ingress	IP20
Auxiliary Power Voltage	DC 8~60 V
Auxiliary Power Current	200 mA (DC 48 V)
Operating Temperature	-13~140°F / -25~60℃
Storage Temperature	-22~158°F / -30~70℃
Input Interfaces	
L1-N	AC 120/240 V, 50/60 Hz, 30 A
L2-N	AC 120/240 V, 50/60 Hz, 30 A
Power Input	DC 8~60 V, 200 mA
DC	DC 12 V, 100 A
Output Interfaces	
AC Load: 1/4 Channel	AC 120/240 V, 50/60 Hz, 20 A
AC Load: 2/3/5/6 Channel	AC 120/240 V, 50/60 Hz, 15 A
DC Load: 1/2 Channel	DC 12 V, 30 A, with Control
DC Load: 3/4/5/6 Channel	DC 12 V, 20 A, with Control
DC Load: 7/8/9/10/11/12 Channel	DC 12 V, 20 A

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

PDU

The Power Distribution Unit is a device used in RV energy storage systems to collect, distribute, and manage multiple current circuits.

Technical Specifications

Model	Xp350-PRO
Operating temperature	-22 °F - 140°F (-30 ~ 60°C)
Operating voltage range	DC8 ~ 65 V
Maximum bus power Input/output	17.9 kW@51.2 V
Maximum bus current Input/output	450 A 30 S
Battery bus interface	100 A / 200 A X 4 groups
DC High-power load interface	350 A x 1 group
DC device interface (Inverter)	150 A x 1 group
DC device interface (A/C)	30 A x 1 group
DC device interface (DC/DC)	50 A x 2 groups
DC device interface with precharge function (Alternator/ Generator)	120 A x 1 group
Terminal form	≤100 A, fast plug, > 100 A, Glen interface
PDU protection level	≥IP65
Short circuit protection	YES
Shell material	Aluminum shell
Dimension (L x W x H)	14.8 x 10.19 x 6.3 inch (376 x 258.8 x 160 mm)
Weight	11.02 lbs. (5 kg)

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

XTouch 7+
Energy Management System (EMS)

The energy management system (EMS) collects, manages and coordinates equipment in the region, ensuring the safe, stable, and efficient operation of the system. It can realize real-time monitoring, coordinated control, and economic operation management, and support functions such as load tracking, photovoltaic power forecasting, and demand-side management.

Plug and Play
Ready to display data upon powering on

Easy Installation
Wall-mounted or installed with the slide rail system

Data Cloud Management
Store and protect data in the cloud

Remote APP Management
Designed for easy data monitoring

Multiple Interfaces
Can be connected to different electrical devices

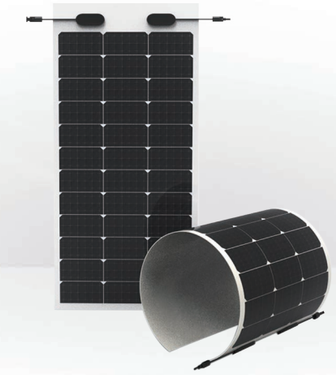
Flexible Upgrades
Remote and local update of subordinate device firmware

Technical Specifications

Model	XTouch 7+		
General Specifications			
Dimension (L x W x H)	182 x 150 x 36 mm / 7.17 x 5.91 x 1.42 inch		
Weight	1.54 lbs / 700 g	Operating Voltage	DC 8~60 V
Ingress Rating	IP20 / IP65 Waterproof Enclosure (Optional)	Operating Current	200 mA (DC 48 V)
Operating Temperature	-4~140°F / -20~60°C, Can be used at up to 70°C / 158°F		
Storage Temperature	-40~194°F / -40~90°C		
External Interface Specifications			
Display	7-inch Capacitive Touch Screen	Power Output	12/1 A
Display Resolution	1280*800	Lead-Acid Battery Sampling Voltage Range	0~30V
Display Brightness	500 cd/m² (With Backlight)	Relay 1 Output	250 mA
USB	USB 2.0 HOST	Relay 2 Output	250 mA
Power Input	8~60 V	Indicator Light	Green (Normal); Red (Abnormal)
Hardware Specifications			
MCU	GD32F470ZGT7	Flash	512 M
SRAM	512 KB	Buzzer	Support
4G Module	FDD-LTE: B1/2/3/4/5/7/8/9/12/13/17/18/19/20/25/26/28/66 TDD-LTE: B34/38/39/40/41(194M) WCDMA: B1/2/4/5/6/8/9/19, GSM: 850/900/1800/1900, Max Speed: DL 10Mbps; UL:50Mbps; WLAN: 2.4G; 802.11 b/g/n		
BLE	Bluetooth V5.0; 2402 MHz-2480 MHz		
Software Specifications			
Supported Device Protocols	Modbus, CAN, RS485		

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

Solar Panel



Maximize your savings and enjoy the peace of mind that comes with solar panel's top durability, reliability and efficiency. Ideally suited for RV applications.

Flexible & foldable

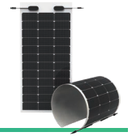
Durable & weather-resistant

High conversion efficiency

Compact & lightweight

Ultra thin & easy installation

Technical Specifications



Electrical performance	XLASP100QH36S
Maximum power	100 W
Power tolerance	+5 W
Optimum operating voltage	20.12 V
Optimum operating current	5.01 A
Open circuit voltage	24.45 V
Short circuit current	5.31 A
Module efficiency	20.74%
STC: AM=1.5, Irradiance 1.000W / ㎡, Module temperature 77°F (25°C).	
Temperature coefficient	
Nominal module operating temperature	109°F ± 36°F (43°C ± 2°C)
Power temperature coefficient	- 0.36% / °C
Voltage temperature coefficient	- 0.28% / °C
Current temperature coefficient	- 0.06% / °C
Mechanical behavior	
Backplane color	White
Solar cell	36 (3 x 12) / monocrystalline - PERC / 162.75 mm
Encapsulating materials	EVA / POE
Frame	Frameless
Protection grade of junction box	IP68
Cable (length / sectional area)	90 mm / 4 mm²
Connector	MC4
Module actual size (L * W)	39.0 x 19.3 inch (990 x 491 mm)
Module assembly size (L *W *H)	1,070 mm x 520 mm x 1.7 mm (excluding junction box)
Module weight	3.1 lbs (1.4 kg)

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