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ALL-ELECTRIC 48V

RV ENERGY STORAGE SYSTEM

ROYPOW

POWER
YOUR HOME
WHERE YOU PARK IT

ROYPOW

CE RoHS

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Li-ion

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Scan it!

ROYPOW
Your Trusted Partner

Contents

OFF-GRID LIVING
STARTS TO CHANGE NOW

No need to
research campgrounds with electrical hookups.

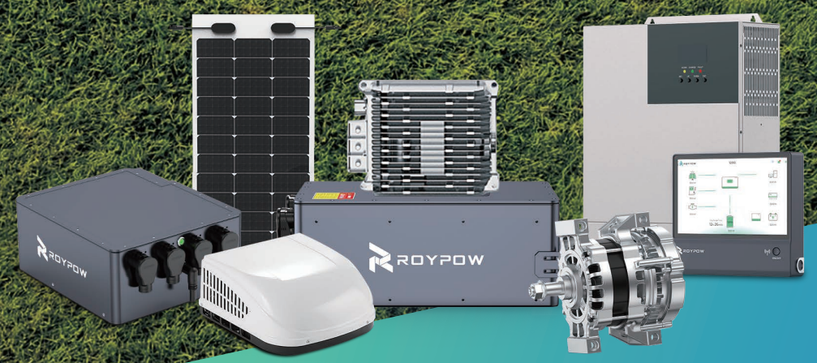
No need to
map routes that end your day at a specific location.

...

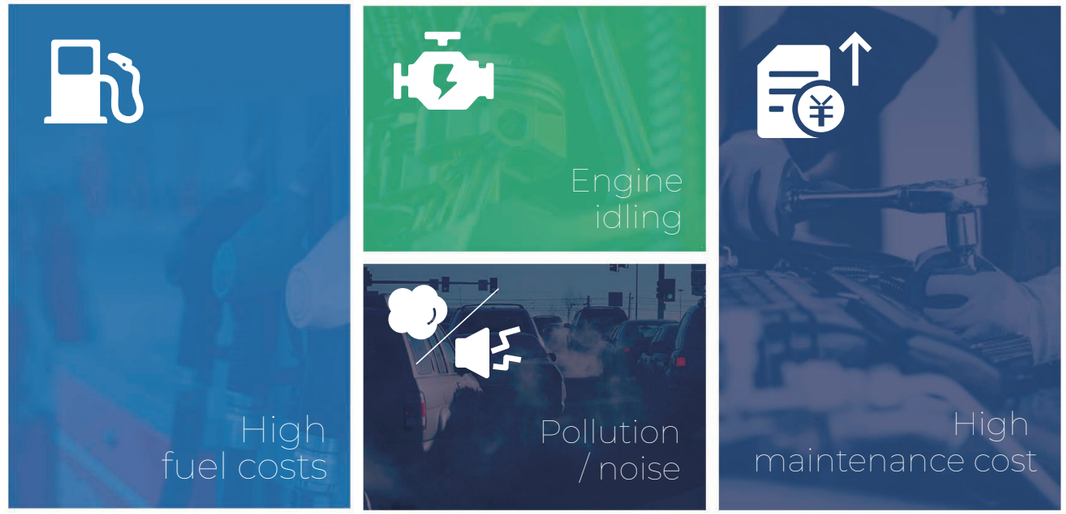
Endless Power to Explore.
More Freedom to Roam.

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



The Shortcomings
of Traditional Energy Storage Solutions



Safe
LFP ($LiFePO_4$)
chemistry

Virtually
0 maintenance

Up to
10 years
design life

5
charging sources

The New Standard of
RV Energy Storage System

No Fume / No Noise / No Emission

Over
6,000
life cycles

48 V
system

-4°F **-131**°F
operating temperature

Including **48 V Alternator**

ONE-STOP SOLUTION

Upgrade Your RV / Van Power

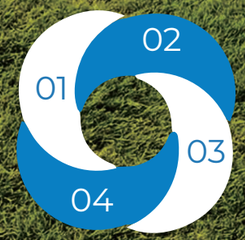
Enjoy Your Off-grid Adventures for Years to Come!

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.

ROYPOW RV ESS

Customizable options
with additional solar panels or all-in-one inverter

Fast charging
shortens the recharge process to enjoy air conditioner and other electronics more quickly



Consistent & enduring power supply
to go off-grid for longer

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 ouput 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

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.

ROYPOW

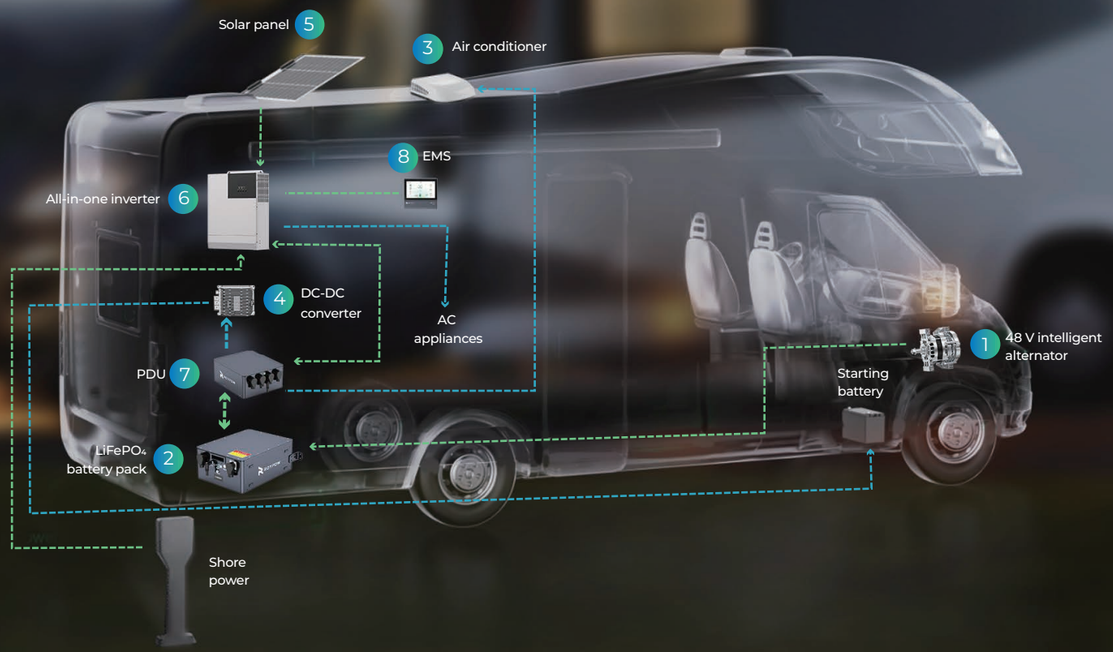
PDU
Power Distribution Unit

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.

- Highly integrated system with multiple interfaces that can support the entire range of RV components
- Save space and ensure a rational distribution of electrical circuits
- Support up to four XBmax5.1L batteries, delivering continuous power output of 400 A and 20 kW
- IP65 protection rating

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.

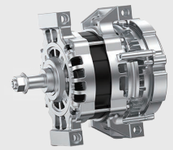


ROYPOW

RV Energy Storage Packs Included

1 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 **5** kW
Continuous Generated Output

Up to **85%**
Conversion Efficiency

2 $LiFePO_4$ Battery

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

Up to **10** Years Design Life

0 Maintenance

>6,000 Life Cycles

3 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

14,000 BTU / h
Cooling Capacity

15,000 BTU / h
Heating Capacity

As Low As **50** dB Noise

4 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%**

5 Solar Panel (Optional)

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

- Foldable
- Lightweight
- Ultra-thin

6 All-in-one Inverter (Optional)

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

ALL IN ONE

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

7 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
20kW

Maximum Bus Current
400A

IP65

8 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

Go Road Tripping with Instant Comfort

ECO FRIENDLY
R-410A
REFRIGERANT

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

14,000 BTU / h
Cooling Capacity

15,000 BTU / h
Heating Capacity

As Low As **50** dB
Noise

Partition in the indoor unit

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

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
Inverter / Non-inverter	Inverter
Power supply	DC 48 V
Cooling capacity	5,000 ~ 14,000 BTU / h
Cooling input power	300 ~ 1100W
EER (Energy Efficiency Ratio)	13 BTU / w.h
Heating capacity	8,000 ~ 15,000 BTU / h
Heating input power	500 ~ 1100W
COP (Coefficient Of Performance)	15 BTU / w.h
Max. rated input current	35 A
Air flow (CFM)	341 (High speed)
Refrigerant	R410A
Noise level	55 dB (A)
Dimensions (H x W x D)	29.7 x 28.1 x 15.1 (756 x 714 x 384 mm)
Net weight	33 Kg
Application area	12 ~ 16 m^2

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

LiFePO4 Battery -
Reliable Power for Your Journey

Travel to the most beautiful places with RoyPow LiFePO4 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 (LiFePO4 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, LiFePO4 batteries have higher energy density and are more stable and reliable. They are environmentally "green" and lightweight to reduce the overall weight.

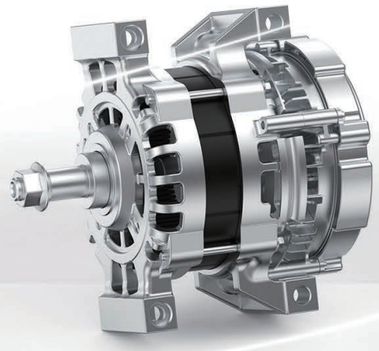
Technical Specifications

Model		XBmax 5.1L	XBmax 5.1L-24
Rated voltage (cell 3.2 V)		51.2 V	25.6 V
Rated capacity (@ 0.5C, 77°F/ 25℃)		100 Ah	200 Ah
Maximum voltage (cell 3.65 V)		58.4 V	29.2 V
Minimum voltage (cell 2.5 V)		40 V	20 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
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)	
	Long-term (within one year)	32 °F ~ 95°F (0°C ~ 35°C)	
Dimensions (L x W x H)		20.15 x 14.88 x 8.26 inch (512 x 378 x 210mm)	
Weight		99.2 lbs (45 kg)	

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

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.



It can achieve

- Automotive-grade, safe and reliable
- Wide working temperature range: -4°F ~ 221°F (-20°C ~ 105°C)

- Smooth start-stop, torque boosting during vehicle acceleration
- Power generation efficiency management and rate optimization prevent lithium battery's over-heating / over-charging damages, etc
- Energy saving and emission reduction

Technical Specifications

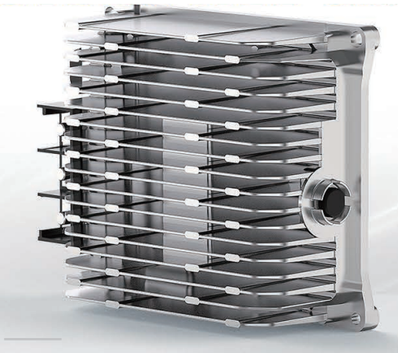
Model	XGen4850Z
Nominal operating voltage	40 V ~ 57.6 V
Generator performance	Peak: 11.5 kW @ >4000 rpm, 105°C, 20 s Continuous: 5.5 kW @ >6000 rpm, 105°C
Efficiency	Peak: ≥85%
Rotor inertial	≤37 kg · cm²
Max operational speed	12000 rpm
Anti-reverse connection	Mechanical poka-yoke
Communication	CAN 2.0B
Motor type	Claw pole machine
Cooling type	Air
Motor overall protection	Motor: IP25 Inverter: IP6K9K
Nominal operating temperature	-30°C～105°C
Motor diameter	≤150 mm
Motor length	≤ 160 mm（without shaft and pulley）
Weight	≤ 19.84 lbs (9 kg)

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

AUTOMOTIVE-GRADE

Bidirectional DC-DC Converter

Designed specifically for RV use, 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
48 V Voltage range	24 V - 36 / 48 / 54 V - 57 V
12 V Voltage range	8 V - 8.5 / 14 / 15.5 V - 16 V
Max. Rated Power	Buck: 2.5 kW (178 A @14 V), Boost: 2 kW (41 A @48 V) Buck mode: The derating factor is 15.5 V - 16 V , 8.5 V-8 V corresponding to 100% - 0 load Boost mode: The derating factor is 54 V - 57 V, 36 V-24 V corresponding to 100% - 0 load
Over-temperature protection range	248°F (120°C)
CAN communication	CAN communication
Wake-up type	KL15
Precharge time	Once pre-charge instruction is received, the 48 V side busbar capacitor voltage is expanded from 12 V to rated 48 V set by the controller in 150 ms.
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 | Available Option

All-in-one Inverter

Featuring higher response speed, reliability and industrial standard, this all-in-one Hybrid inverter integrates an inverter, a battery charger and an MPPT solar charge controller into one complete system, largely simplifying off-grid solar installation and ideal for mobile applications!

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

- The LCD panel displays data and settings, which can also be viewed using the app and webpage

Multiple Safety Protections

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

ALL IN ONE

Inverter

+

Battery Charger

+

MPPT Solar Charge Controller

Technical Specifications

Model	R3500S-U	R5000S-E
Battery Input		
Battery Type	Lithium Ferro-Phosphate (LFP)	Sealed, Flood, GEL, LFP, Ternary
Rated Battery Input Voltage	48 V	48 V
Battery Voltage Range	40 Vdc - 60 Vdc ± 0.6 Vdc	40 Vdc - 60 Vdc ± 0.6 Vdc
Hybrid Charging Maximum Charging Current	120 A	80 A
Solar Input		
Maximum PV Input Current	50 A	22 A
Maximum PV Input Power	4,400 W	5,500 W
Maximum PV Charging Current	80 A	80 A
PV Working Voltage Range	60 - 145 Vdc	120 - 500 Vdc
MPPT Voltage Range	60 - 115 Vdc	120 - 450 Vdc
AC Input (Generator/Grid)		
Rated Input Voltage	110 / 120 Vac	220 / 230 Vac
Mains Maximum Charging Current	40 A	60 A
Mains Charging Efficiency	>95%	>95%
Switch Time	10 ms (Typical Value)	10 ms (Typical Value)
AC Output		
Peak Power	3,500 VA	10,000 VA
Rated Output Power	3,500 W (2,900 / 2,050 / 3,200 W)	5,000 W (4,350 / 4,500 / 4,750 / 5,000 W)
Rated Output Voltage	120 Vac (180 / 185 / 110 Vac)	230 Vac (200 / 208 / 220 / 240 Vac)
No-load Loss	Non Energy-saving Mode: ≤ 50 W Energy-saving Mode： ≤ 25 W (Manual Setup)	
General		
Certificate	CE (IEC 62109-1) / CETLC (UL1741 / CSA C22.2 NO.107.1)	
Working Temperature Range	5°F - 131°F（-15°C - 55°C）	14°F ~ 131°F（-10°C ~ 55°C）
Storage Temperature Range	-13°F - 140°F（-25°C - 60°C）	
Humidity Range	5% - 95%	
Weight	23.8 lbs (10.8 kg)	23.2 lbs (10.5 kg)
Dimension	16.8 x 12.7 x 4.9 inch (426 x 322 x 124 mm)	16.8 x 12.7 x 4.9 inch (426 x 322 x 124 mm)

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.

Technical Specifications

Model	XBmax5.1L-PDU
Operating temperature	-22 °F - 140°F (-30 ~ 60°C)
Operating voltage range	DC8 ~ 65 V
Maximum bus power Input/output	20 kW
Maximum bus current Input/output	400 A (450 A, 20 s)
Battery bus interface	100 A x 4 groups
DC High-power load interface	400 A x 1 group
DC device interface (Inverter)	150 A x 3 groups
DC device interface (A/C)	100 A x 1 group
DC device interface (DC/DC)	100 A x 1 group
DC device interface with precharge function (Alternator/ Generator)	100 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)	19.96 x 14.8 x 7.28 (507 x 376 x 185 mm)
Weight	10 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.

Technical Specifications

Model	Xtuch7
Display Size	7.0 Inch
Display Type	IPS LCD Display
Resolution	1024 x 600
Brightness	1000 cd / m2
Colours	24-bit RGB
Touch Screen	Projected Capacitive
Operating Voltage	8-60V，25W
Current Draw	<4 W operating, <2 W standby
Storage Temp	-20°C to 50°C (-4°F to 122°F)
Operating Temp	-20°C to 50°C (-4°F to 122°F)
Ingress Protection	IP65
Interfaces	CAN、RS485、USB、KL15、KL30
Featured functions	Energy allocation management, Wi-Fi hotspot, Remote control, OTA
Dimensions (H x W x D)	7.17 x 6.61 x 1.4 inch (182 x 168 x 36 mm)
Weight	1 kg

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

Solar Panel | Available Option

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.

Features

- Flexible & foldable
- Durable & weather-resistant
- High conversion efficiency
- Compact & lightweight
- Ultra thin & easy installation

Technical Specifications

ROYPOW

Electrical performance	ASP100M36S
Model	ASP100NH36S
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 mm^2
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

ROYPOW,
For One-stop New Energy Solutions

ROYPOW TECHNOLOGY is dedicated to the R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions.

With more than 20 years of combined experience in manufacturing renewable energy and battery systems, ROYPOW provides Lithium-ion Batteries covering most daily living and working fields: for Low-Speed Vehicles such as golf carts, personnel carriers; Industrial Batteries for use in Material Handling Equipment such as forklifts, aerial work platforms and floor cleaning machines as well as renewable Energy Storage Systems for residential, commercial, industrial, vehicle-mounted and marine applications.

ROYPOW has established a worldwide network to serve customers with a manufacturing center in China and subsidiaries in the USA, the UK, Germany, the Netherlands, South Africa, Australia, Japan and Korea to date. ROYPOW owns and operates fully automatic production lines, a full range of test equipment and an advanced MES that collectively address all aspects of its manufacturing process, from electronics, software design to module assembly, battery assembly as well as initial and final testing. ROYPOW focuses on the self-development of power electronics technologies, including PCS, BMS, and EMS as the core competence.

As a renewable energy innovator, ROYPOW is committed to the mission of achieving energy sustainability while creating a better life for human beings.

R&D and Manufacturing Highlights

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

- All-round testing.
- Integrated design.
- Advanced MES system.
- IATF 16949 automotive quality management system certification
- QC system.
- Persistent technology innovation.
- Fully automatic production line.
- ISO12405-2 vibration performance and safety testing of automotive lithium batteries

Global Sales and Service Network System

- 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:

- **Low-speed Vehicle Batteries** including golf carts and sightseeing cars;
- **Vehicle-Mounted Energy Storage Systems & Batteries** including RV and truck energy storage and air conditioning systems, off-grid solar systems for RV, as well as power batteries for electric motorcycles;
- **Residential Energy Storage Systems** including home storage as well as off-grid energy storage (for forest cabin, island homes without electricity, etc.);
- **Industrial Batteries** including forklifts, aerial work platforms and floor cleaning machines;
- **Marine Energy Storage Systems & Batteries** including trolling motors, fish finders, other off-grid energy storage systems for marine, and marine power systems;
- **Commercial & Industrial Energy Storage Systems** including diesel generator power micro-grid energy storage systems (for tower cranes, air compressors, mixers, crushers, etc);
- **Chargers** for forklifts, aerial work platforms, floor cleaning machines, golf carts and various marine batteries.