

# 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+		
<b>General Specifications</b>			
Dimension (L x W x H)	7.17 x 5.91 x 1.77 inch / 182 x 150 x 45 mm		
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		
<b>External Interface Specifications</b>			
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/m <sup>2</sup> (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)
<b>Hardware Specifications</b>			
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		
<b>Software Specifications</b>			
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** (IP65)
- High conversion efficiency**
- Compact & lightweight**
- Ultra thin & easy installation**

## Technical Specifications

Electrical performance	XLASPI100QH36S
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 / m <sup>2</sup> , 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 <sup>2</sup>
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