

Description

Renogy Smart Distribution Box PMS1280 is a centralized DC power control hub designed for off-grid RVs, yachts, and motorhomes. It integrates load control, voltage and current detection, water level monitoring, temperature sensing, and digital input/output interfaces into a single unit.

When connected with Renogy ONE Core, Renogy App, or Renogy ONE Vision, the system enables real-time monitoring and control of connected DC devices.

Key Features

■ Centralized Load Control

Manages up to 12 DC circuits with a total current capacity of 80A, simplifying system wiring and improving power management efficiency.

■ System Monitoring

Integrates voltage, current, water level, and temperature sensing for clear system visibility.

■ Real-Time Monitoring & Control

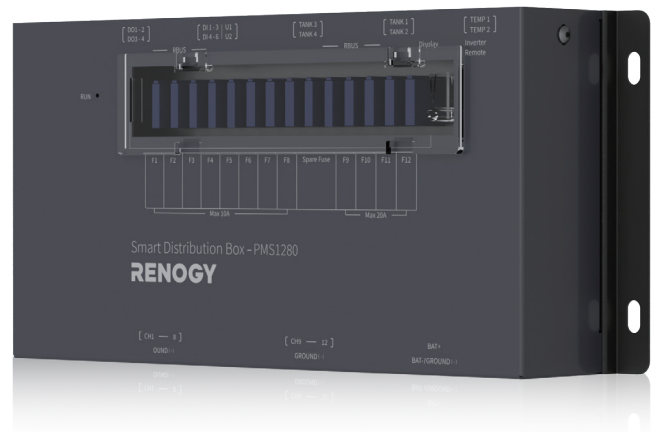
Works with Renogy ONE Core, Renogy App, or Renogy ONE Vision for live system management.

■ Customizable Settings & Automation

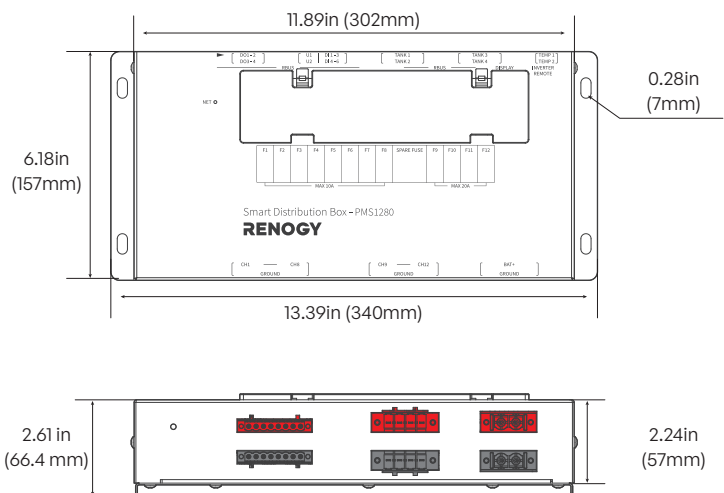
Supports flexible operation through user-defined settings and automation scenes.

■ Battery Protection

Automated low-voltage shutdown and high-voltage reconnect help safeguard connected batteries.



Product Dimensions



Recommended Accessories



Control Panel

Provides shortcut control for appliances and scenarios with Smart Distribution Box PMS1280.

Technical Specifications

Electrical Specifications

Model	RSHCB-C02P
System Voltage	12V / 24V DC
Self-Consumption	1.2W@12VDC (Standby Mode)
Maximum Load Amps	80A
Maximum Load Output Amps	8 x 10A & 4 x 20A
Communication	CAN & RS-485
Analog Voltage Range	0V to 60V ($\pm 0.2V$)
Current Detection Tolerance	$\pm 2\%$
Detected Temperature Range	-4°F to 176°F ($\pm 37.4^\circ F$) / -20°C to 80°C ($\pm 3^\circ C$)
Water Level Sensor	Capacitive, Resistive, and Voltage Water Level Sensors x4
Digital Channels	Digital Input x6, Digital Output x4
Remote Inverter Control	Yes

Mechanical Specifications

Operating Temperature	-4°F to 122°F / -20°C to 50°C
Operating Humidity	0% to 95%, RH, No Condensation
Operating Altitude	Less than 16,404ft / 5,000m
Dimensions (LxWxH)	13.39 x 6.18 x 2.61in / 340 x 157 x 66.4mm
Weight	4.36 lbs / 1.98kg
Certifications	REACH, R10, FCC, IC, RCM
Warranty	2-Year

Package Contents

Mounting Screw	Yes (x4)
Temperature Sensor	Yes (x2)
2-Pin BAT Connector	Yes (x2)
8-Pin Load Connector	Yes (x2)
4-Pin Load Connector	Yes (x2)
2-Pin Load Connector	Yes (x2)
4-Pin Push-In Connector	Yes (x2)
6-Pin Push-In Connector	Yes (x4)
7-Pin Push-In Connector	Yes (x2)
User Manual	Yes (x1)

Renogy and any of its affiliates have reserved the right to make any modifications to the information on this data sheet without notice. It is our goal to supply our customers with the most recent information regarding our products.

These data sheets can be found in the downloads section of our website, www.renogy.com.