

## 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

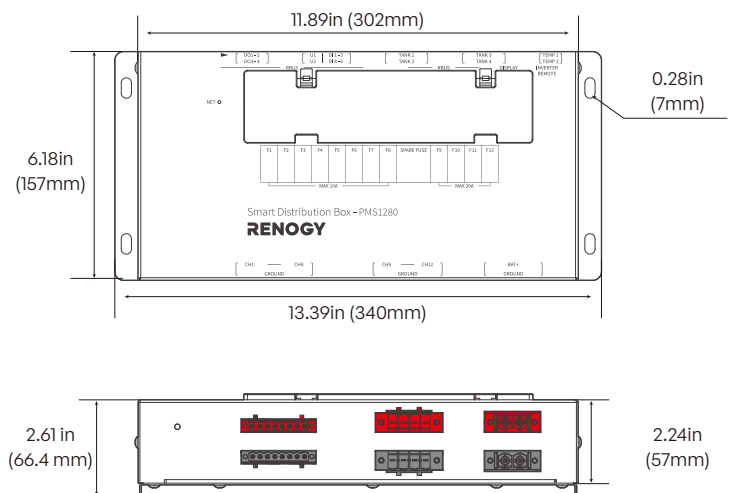
Supports flexible operation through user-defined settings and automation scenes.

### 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	5-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)

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