

Description

Renogy ONE Core provides centralized energy monitoring and analysis for your solar power system. Access system data locally via the built-in touchscreen or remotely through the Renogy App and ONE Portal. ONE Core also supports RV leveling (except North America) and multi-device system monitoring.

Key Features

- **All-in-One Smart Monitoring Hub**

Centrally monitors key components of your solar power system, including batteries, charge controllers, inverters, and DC loads.

- **Wide Communication Compatibility**

Supports Wi-Fi, Bluetooth LE/Mesh, RS-485, and CANBus, enabling seamless integration with various Renogy power devices.



Renogy ONE Core

Description

Renogy ONE Vision 7 is a touch display designed for system-wide power visualization and control in RVs and camper vans. When connected to Renogy ONE Core, it provides real-time insights into energy production and consumption, system alerts, and guided troubleshooting, helping users operate their power system efficiently and reliably.

Key Features

- **System-Wide Monitoring & Alerts**

Provides real-time insights into energy production, consumption, and system alerts when connected to ONE Core.

- **Compact Touch Interface**

Built-in self-diagnosis and online support ensure stable operation with straightforward installation and use.



Renogy ONE Vision 7

Description

The Control Panel is the primary interface in your RV, providing 12 shortcut buttons for easy management of appliances and scenarios, and is fully functional when paired with the Smart Distribution Box PMS1280.

Key Features

- **One-Touch System Control**

Monitor key power data and control connected devices and appliances with one-touch operation.

- **Custom Scenario Management**

Create and activate custom scenarios for everyday use with your Smart Distribution Box PMS1280.



Control Panel

Technical Specifications

Renogy ONE Core

Model	RSHGWSN-W02W
Operating Voltage	Power Port: 8V to 35V DC (Typical 12V) USB Type-C: 5V DC
Power Consumption at 12V	Operating, Wi-Fi On, 100% Illumination: 3.2W Operating, Wi-Fi On, 50% Illumination: 2.4W Operating, Wi-Fi On, 0% Illumination: 1.9W Screen Off, Wi-Fi Off, Logs Still Active: 1.5W
Power Consumption at 5V	Operating, Wi-Fi On, 100% Illumination: 2.9W Operating, Wi-Fi On, 50% Illumination: 2.3W Operating, Wi-Fi On, 0% Illumination: 1.7W Screen Off, Wi-Fi Off, Logs Still Active: 1.3W
Communication	Wi-Fi (IEEE 802.11b/g/n 2.4 GHz and 5 GHz), Bluetooth LE and Bluetooth Mesh, Zigbee 3.0 (IEEE 802.15.4), RS-485, CAN
Touch Screen	4in (480 x 480p)
Leveling Range and Accuracy	±89°, 0.1°
Operating Temperature	-4°F to 158°F / -20°C to 70°C
Operating Humidity	0% to 95% RH
Operating Altitude	Less than 16,404ft / 5,000m
Installation	Flush Mounting
Dimensions (LxWxH)	4.17 x 4.17 x 1.05in / 106 x 106 x 26.6mm
Weight	0.28 lbs / 128g
Certifications	CE, REACH, R10, FCC, IC, RCM
Warranty	2-Year

Package Contents :

- Mounting Screws x4
- Power Cable (5m) x1
- Quick Guide x1

Renogy ONE Vision 7

Model	RSHSN-W02W7
Input Voltage	8V to 32VDC (Typical 12V)
Power Consumption	0.5W@12V (Screen Off @Wi-Fi On)
Operating System	Android 12
CPU and Memory	Quad-Core Cortex-A53 64-bit CPU, Memory: 2GB, Storage: 16GB
Display Screen	7in Touch Screen, Resolution: 600 x 1024p, Brightness: 300cd/m ²
Wi-Fi	2.4GHz Wi-Fi (IEEE 802.11b/g/n)
Bluetooth	2.4GHz Bluetooth Low Energy
Ethernet	100Mbps
USB-A	USB Flash Drive for OTG
Operating Temperature	-4°F to 158°F / -20°C to 70°C
Storage Temperature	-22°F to 176°F / -30°C to 80°C
Operating Humidity	10%~90% RH, No Condensation
Operating Altitude	Less than 16,404ft / 5,000m
Installation	Flush Mounting
Fire Rating	UL 94V-0
Dimensions (LxWxH)	7.1 x 4.7 x 0.99in / 181.4 x 118.4 x 25.2mm
Weight	0.77 lbs / 350g
Certifications	CE, R10, UKCA, FCC, IC, RCM, TELEC
Warranty	5-Year

Package Contents :

- Mounting Screws x5
- Mounting Bracket x1
- Power Cable (5m) x1
- User Manual x1

Control Panel

Model	RSHCP-C02W01
Input Voltage	8V to 60VDC
Power Consumption	0.4W@12VDC
Buttons	12 Channels
Communication	CAN x 2 (RJ45 Port)
Operating Temperature	-4°F to 122°F / -20°C to 50°C
Operating Humidity	0% to 95% RH

Model	RSHCP-C02W01
Operating Altitudes	Less than 16,404ft / 5,000m
Dimensions (LxWxH)	5.35 x 2.99 x 0.68in / 136 x 76 x 17.3mm
Weight	0.2 lbs / 93g
Certifications	REACH, FCC, IC, RCM
Warranty	5-Year

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