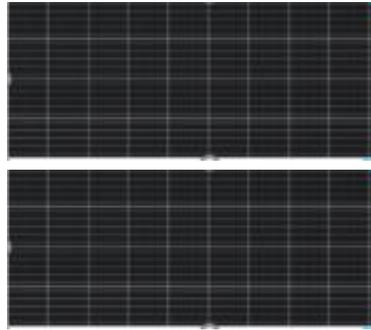


TRAVEL LITE SOLAR PACKAGE

RSP200D-G1
2-200W Hard
Monocrystalline
Solar Panel



RNG-CNCT-FUSE15
15A fuse per panel



SRCB-2
Rooftop
Box

CH001
Load Shed Box



RNG-CTRL-RVR40
ROVER 40A MPPT
Charge Controller



RBM500-G1
500A Battery Monitor



RNG-CTRL-RVR40
ROVER 40A MPPT
Charge Controller



SRCB-2
Rooftop
Box



R-INVT-PCL1-3011S
3000W Inverter Charger w/
Built-in Transfer Switch



DEHCO-FSP300D
300w Portable
Solar Blanket

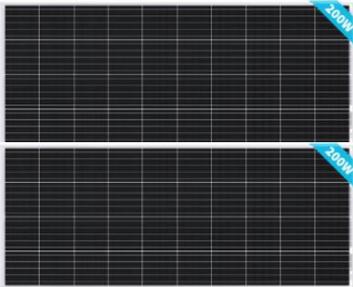


RBT12400LFPL-SHBT
12V/400AH Lithium Battery



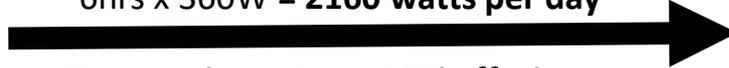
TRAVEL LITE INFORMATION GUIDE

2-200 Watts Solar Panels
= 400 Watts



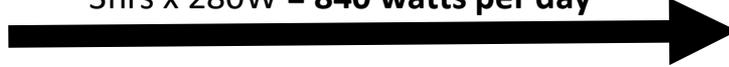
Sunny Summer Day – 90% efficiency

400W x 0.9 = 360W of Solar Output
6hrs x 360W = **2160 watts per day**



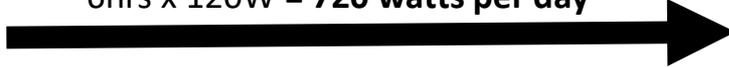
Sunny Winter Day – 70% efficiency

400W x 0.7 = 280W of Solar Output
3hrs x 280W = **840 watts per day**



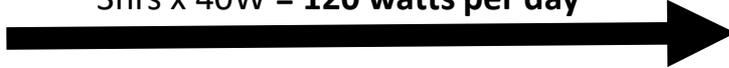
Cloudy Summer Day – 30% efficiency

400W x 0.3 = 120W of Solar Output
6hrs x 120W = **720 watts per day**



Cloudy Winter Day – 10% efficiency

400W x 0.1 = 40W of Solar Output
3hrs x 40W = **120 watts per day**



Battery Bank

400AH x 12 Volts
= **4800 Watts of Stored Power**



**4800W x 85% (15% reserve)
= 4080 watts of useable power**

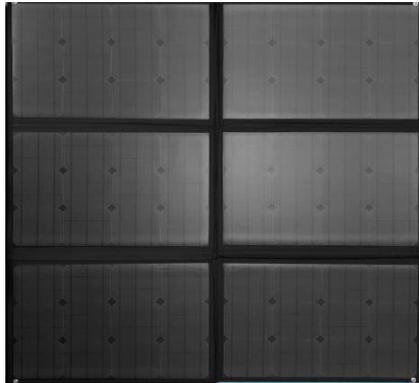


**Appliances – Power Usage and Runtimes based on full battery
(4080W battery power divided by appliance watts/hour)**

Air Conditioner	= 1100W	= 3.7 hrs
Cooktop	= 1500W	= 2.72 hrs
Fireplace	= 1600W	= 2.55 hrs
Microwave	= 1100W	= 3.7 hrs
Water Heater	= 1600W	= 2.55 hrs
Refrigerator	= 80W	= 51 hrs
Lights, Water Pump, Misc.	= 40W	= 102 hrs

TRAVEL LITE INFORMATION GUIDE

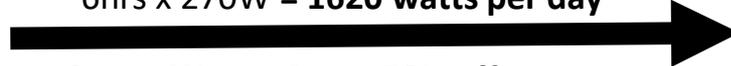
300W Solar Blanket



Sunny Summer Day – 90% efficiency

300W x 0.9 = 270W of Solar Output

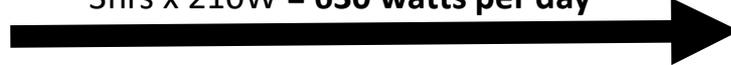
6hrs x 270W = **1620 watts per day**



Sunny Winter Day – 70% efficiency

300W x 0.7 = 210W of Solar Output

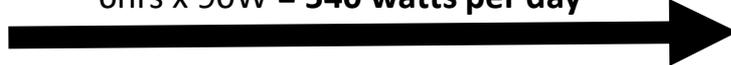
3hrs x 210W = **630 watts per day**



Cloudy Summer Day – 30% efficiency

300W x 0.3 = 90W of Solar Output

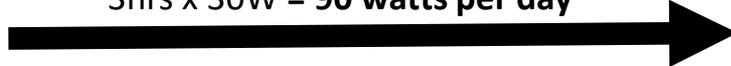
6hrs x 90W = **540 watts per day**



Cloudy Winter Day – 10% efficiency

300W x 0.1 = 30W of Solar Output

3hrs x 30W = **90 watts per day**



Battery Bank

400AH x 12 Volts

= **4800 Watts of Stored Power**



**4800W x 85% (15% reserve)
= 4080 watts of useable power**



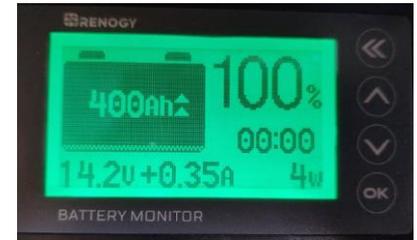
**Appliances – Power Usage and Runtimes based on full battery
(4080W battery power divided by appliance watts/hour)**

Air Conditioner	= 1600W	= 2.55 hrs
Cooktop	= 1500W	= 2.72 hrs
Fireplace	= 1600W	= 2.55 hrs
Microwave	= 1100W	= 3.7 hrs
Water Heater	= 1600W	= 2.55 hrs
Refrigerator	= 80W	= 51 hrs
Lights, Water Pump, Misc.	= 40W	= 102 hrs

Training to Calibrate Battery Monitor

Step 1 - To make sure that the battery bank is full

- Ignore the percent on the battery monitor until the monitor is calibrated.
- See battery monitor page to change the battery capacity to 400AH.
- Plug into shore power and make sure Inverter is turned on.
- Check battery monitor and make sure batteries are charging.
- When Amps (A) on the battery monitor get below 0.5A, then the battery bank is full.
- Hold the up arrow on the battery monitor for 3 seconds and it will calibrate the battery monitor and show 100%.



Step 2 - When end user says they are not using any power and batteries die

- Always use the battery monitor and Intellitronix monitor to confirm current power (wattage) draw. The battery monitor will show the real-time charge/discharge on the whole system. The AC loads can be checked on the Intellitronix monitor. Cycle through the screens to see the watts being used on each circuit (see pic to right).



Step 3 – How to shutoff AC/DC Power to unit

- To maximize battery life, turn the inverter remote switch (pictured on right) off to ensure AC loads are off and removes small draw from the inverter. Turn off battery disconnect; the battery monitor will only show solar charging.
- If you plan on leaving unit for weeks or more, then disconnect the Anderson connector on the battery, then press button on top of battery for 3 seconds and let go and it will shut down the battery. No LED lights will be on the battery cover.



Step 4 – Understanding how to read the Battery Monitor

- Between the volts and amps on the battery monitor will show whether the system is charging or discharging by the + (charging) and – (discharging). See 500A Battery Monitor pages for more details.





3000W 12V PURE SINE WAVE INVERTER CHARGER W/ LCD DISPLAY

R-INVT-PCL1-30111S

Note: The Lithium Batteries BMS (Battery Management System) will put the batteries in sleep mode once they reach 10V. To wake up the batteries use solar power or charge with a lithium activation charger

When using shore-power the Inverter charges batteries at 780 watts an hour ,about 7 hours to refill.

INVERTER SPECIFICATIONS

Continuous Power: 3000W

AC Output Voltage Range: 100~120VAC configurable, 5V interval

DC Input Voltage Range: 10~16 VDC

Nominal Efficiency: > 90% Peak

Surge Power (1 second): 9000W

Output Frequency (Nominal): 50/60 Hz

Output Waveform: Pure Sine Wave

No Load Power Consumption: Normal: <30W; Power Saving: <15W

CHARGER SPECIFICATIONS

Output Current: 5-75A configurable, 5A intervals

Nominal Input Voltage: 120 VAC

Input Frequency Range: 40Hz - 70Hz

Surge Power (1 second): 9000W

Output Frequency (Nominal): 50/60 Hz

Output Waveform: Pure Sine Wave

No Load Power Consumption: Normal: <30W; Power Saving: <15W

GENERAL SPECIFICATIONS

Battery Types: GEL, AGM, SLA, FLD, CAL, LI, USER

Operating Temperature: 0 ~ 40°C / 0 ~ 104°F

Storage Temperature: -30 ~ 70°C / -22 ~ 158°F

Humidity: 0% ~ 95%

Noise: <50dB

Dimensions: 20.1 x 9.7 x 7.6 in / 510 x 248 x 193 mm

Weight: 63.5 lbs / 28.8 Kg

3000W 12V PURE SINE WAVE INVERTER CHARGER W/ LCD DISPLAY

R-INV-T-PCL1-30111S

Fault / Warning Codes

NOTE The following fault codes will have a caution symbol when experiencing the fault

Warning Code	Warning Event	Icon On
03	Battery over voltage	03 [⚠]
04	Battery low voltage	04 [⚠]
05	Inverter over temperature	05 [⚠]
07	Inverter overload	07 [⚠]
88	Transformer phase reversal	88 [⚠]
89	Frequency is out of range	89 [⚠]

NOTE The following will experience an error display as well as the fault code

Fault Code	Fault Event	Icon on
02	Heat sink over temperature	02 _—
03	Battery voltage is too high	03 _—
04	Battery voltage is too low	04 _—
05	Output short circuit	05 _—
06	Output is too high or too low	06 _—
07	Overload	07 _—
99	Inverter fail to slow start	99 _—

11 Maximum Utility Charging

The PCL inverter chargers can operate like battery chargers converting incoming AC power into DC recharging power. The 2000W has a 65A max while the 3000W has a 75A max adjustable battery charging.

11	Maximum utility charging current		The default is the maximum value (65A-2KW, 75A-3KW), with a 5A minimum.
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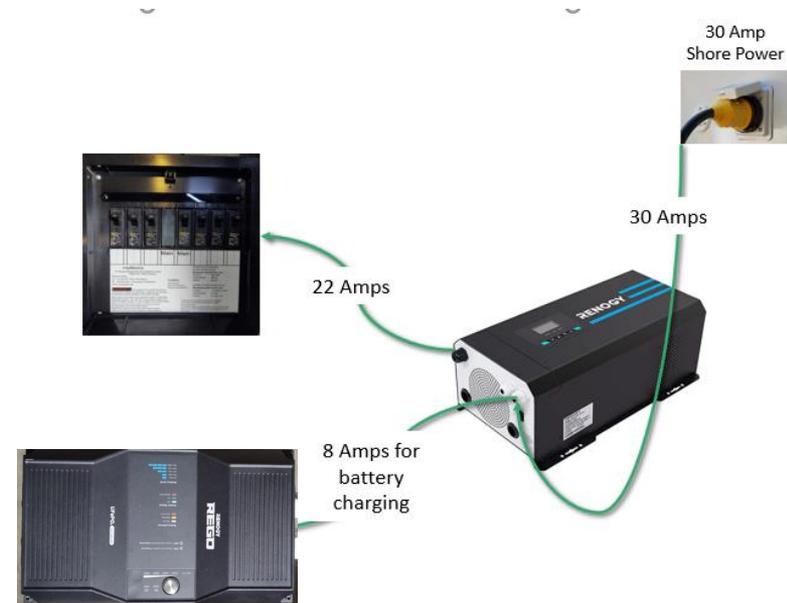
Step 1:

Setting 11 on 3000w Inverter Charger is how to adjust the Utility Charging from the default maximum 75A of charging to a lower value by increments of 5A. The illustration to the right shows how the shore power is being distributed from charging to running appliances when the maximum 75A charging is selected. By lowering the charging value, then it will increase how many amps can be used for appliances.

Step 2:

To SAVE the Utility Charging selection, turn off the Inverter Charger at the remote switch first. Then the battery disconnect can be turned off. This order only needs to be done for initial setup.

3000W 12V PURE SINE WAVE INVERTER CHARGER W/ LCD DISPLAY R-INV-T-PCL1-30111S



200-WATT 12 VOLT MONOCRYSTALLINE SOLAR PANEL

RSP200D-G1



Electrical Data

Maximum Power at STC*	200 W
Optimum Operating Voltage (V_{mp})	21.0 V
Optimum Operating Current (I_{mp})	9.52 A
Open Circuit Voltage (V_{oc})	24.1 V
Short Circuit Current (I_{sc})	10.9 A
Cell Efficiency	21.0%
Maximum System Voltage	1000 VDC UL
Maximum Series Fuse Rating	15 A

Thermal Characteristics

Operating Module Temperature	-40°C to +80°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.42%/°C
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.05%/°C

Mechanical Data

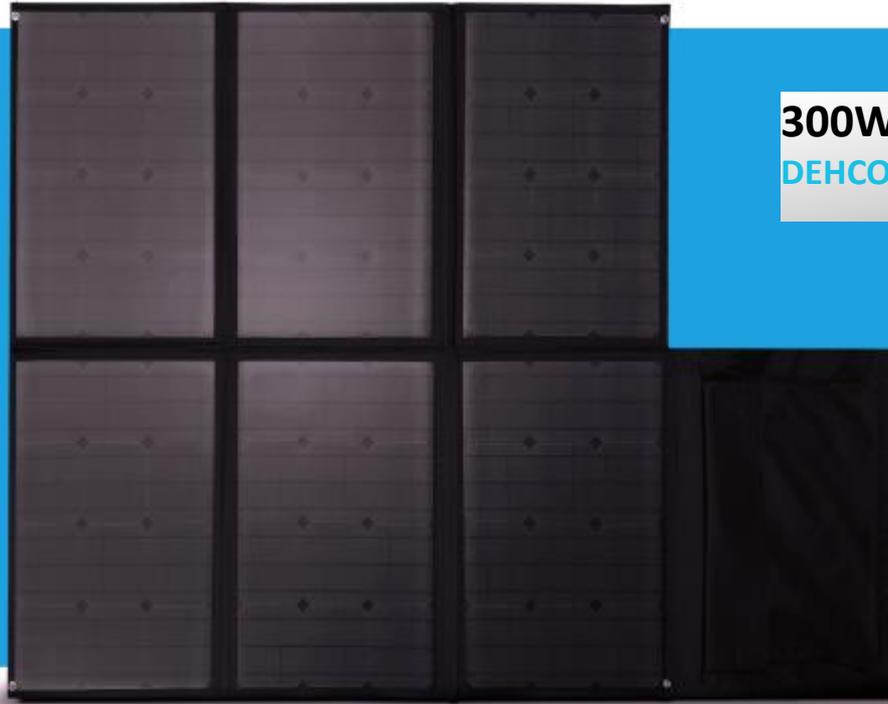
Solar Cell Type	Monocrystalline (156 x 156 mm)
Number of Cells	40 (4 x 10)
Dimensions	1620 x 657 x 35 mm
Weight	11.5 kg
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	Solar Connectors
Fire Rating	Class C

Solar Connectors

Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

300W PORTABLE SOLAR PANEL

DEHCO-FSP300D



Optional 300w panel be helpful for charging while parked in the shade or to help rapid charge your batteries or extend your appliance use during the day.

- High performing PET-laminated monocrystalline cells, 19% efficiency
- Foldable and portable design with carrying handle
- Expandable design with industry standard MC4 connector

300W FOLDABLE MONOCRYSTALLINE SOLAR PANEL

Optimum Operating Voltage (Vmp)	39.5V
Optimum Operating Current (Imp)	7.6A
Cables	3 ft
Weight	27.5 lb
Folded Dimensions	27.0 x 19.5 x 2.0 in
Unfolded Dimensions	81.0 x 55.5 x 0.5 in

500A BATTERY MONITOR

RBM500-G1



Touch Button



Bidirectional Detection



Safety Protection



Precise Measurements



Power-off Memory



Low Voltage Low Capacity Alarm

SPECIFICATIONS

Working Voltage : 10-120V

Working Dissipation : 10-15mA

Standby Dissipation : 1-2mA

Voltage Accuracy : $\pm 1\%$

Current Accuracy : $\pm 1\%$

Capacity Accuracy : $\pm 1\%$

Backlight on current (50A) : 30-60mA

Backlight on current (>50A) : 80-120mA

Preset capacity value : .1-9999 AH

Temperature range : 0-35°C

Weight : 2.6 oz / 75 g

Size : 3.9 x 2.4 x 0.7 in / 100 x 61 x 17 mm

KEY FEATURES

High precision current detection

High and Low Voltage Programmable Alarm - Backlight and voltage value will flash simultaneously

Data Storage - Designed to automatically store the last testing data when system shuts off

Displays multiple electronic parameters (Voltage, Current, Consumed Power and Battery Capacity)

Universal Battery Monitor- Voltage range 10V-120V and up to 500A

Accurate Battery SOC%

Large backlit LCD Display



DEHCO ELECTRONICS

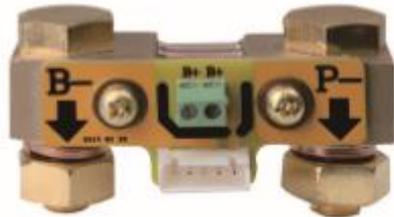
500A BATTERY MONITOR

RBM500-G1

IDENTIFICATION OF PARTS



LCD InterFace



500A Shunt/Sampler



10ft (3m)
Shielded Wire



3ft (1m)
B+ Wire

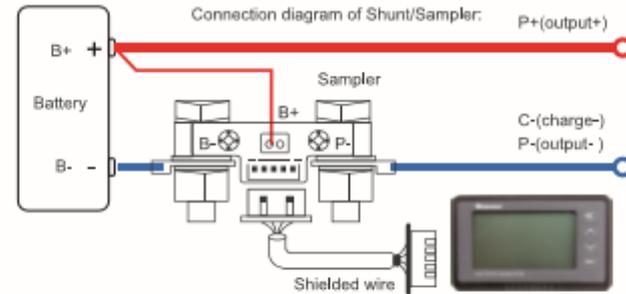
INSTALLATION

■ Connection/Setup

First, connect the Shunt in series to the negative circuit of your battery. B- of shunt connects to B- of the battery. P- of shunt connects to P- of output or C- of charge.

Then take a wire of 0.3-0.75 mm². One end of the wire connects to positive of battery, another end connects to B+ of Shunt (either one is ok).

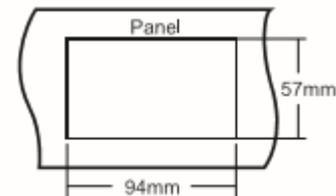
Finally connect the Shunt to the Renogy Battery Monitor by the shielded wire and the screen of the Renogy Battery Monitor display should turn on.



Attention: Please connect as shown. The shunt must be series connected to the negative circuit, DO NOT connect to the positive circuit. If you want to extend the shielded wire, you must use 4 lines of the same specification.

■ Mounting

The Renogy Battery Monitor is fixed by tabs, so it is easy to install. First, open a rectangular orifice on your equipment panel according to the size. Then put The Renogy Battery Monitor into the rectangular orifice, and make sure the tabs are locked.

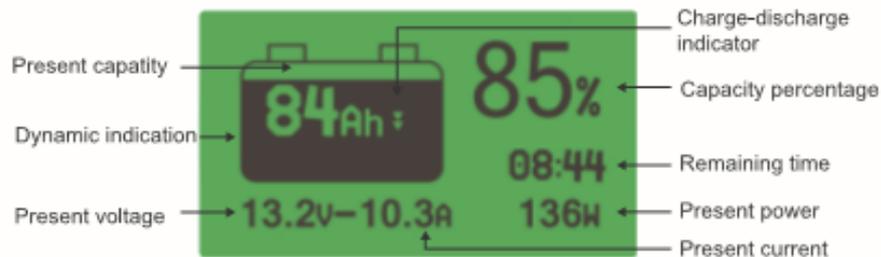


500A BATTERY MONITOR

RBM500-G1

OPERATION

Interface description



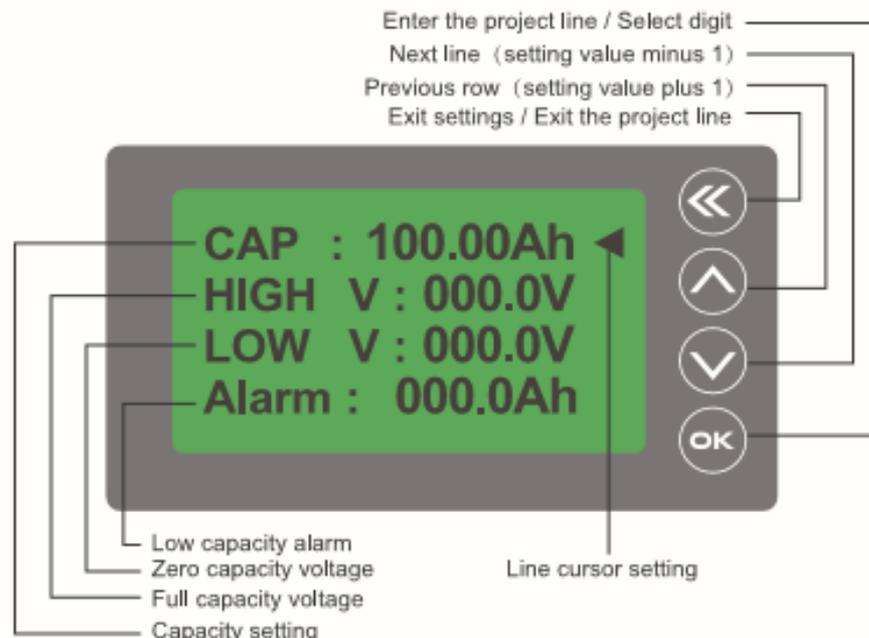
Use steps

1. Connect and check the current: Power on after completing the connection as shown, the screen should display capacity percentage. If the screen has no response, please check the connection. Then charge or discharge the battery and check whether the display current is equal to the actual current. If the deviation is large, please check the connection.

2. Capacity reset: On first use, the percentage and capacity are not the actual value, you should reset the capacity. First, discharge the battery to 0% and hold the \downarrow key for 3s to set the capacity zero or charge the battery fully and hold the \uparrow key for 3s to set the capacity full. This will only have to be done on initial installation of the Renogy Battery Monitor or if the battery bank is replaced.

3. Check and reset the actual capacity: If you find the displayed capacity doesn't match the actual capacity during use, please check and reset the actual capacity, discharge the battery to 0 % and hold the \downarrow key for 3s to set the capacity 0, then set the preset capacity as large as possible. Then charge the battery fully and the displayed capacity should be the actual capacity. Finally set the display capacity as preset capacity (Please refer to use setting).

User settings



Preset capacity and voltage setting :

1. Press the \ominus key for 3s to enter setting menu;
2. Click \uparrow or \downarrow key to select the setting items:

- CAP—Preset capacity: An initial capacity has been set at the factory, please set it according to the real capacity of your battery.
- HIGH V—Full capacity voltage: When the voltage is higher than the set value, the capacity will be automatically set to 100%.

500A BATTERY MONITOR

RBM500-G1

- **LOW V-Zero capacity voltage:** When the voltage is lower than the set value, the capacity will be automatically set to 0%. If the discharge continues, the voltage value will flash, and the alarm will beep once every 10s.
- **ALARM-Alarm setting:** When the battery capacity is below the set capacity, the percentage and battery symbol will flash and the alarm will beep once every 10s.
- **Attention:** If you need to set the HIGH V and LOW V values, please confirm the full charge voltage and all discharge voltage specifications of your battery.

3. Select CAP and click the  key to enter the preset capacity setting; The set value will flicker, click the  key can select other values, click the  or  key to select the correct values after this click the  key to quit preset capacity setting.

4. We can set other items with the same method as preset capacity. When all the items are set and all the values are correct, click the  key to save the set and quit the setting menu.

Set capacity to zero or full :

On first use or change of the battery bank, the memory capacity should be set zero or full: In the main interface, hold the  key for 3s to set the capacity zero, the percentage will be 0%; hold the  key for 3s to set the capacity full, the percentage will be 100%.

Sleep mode wake up operation

1. When the battery current is low, the Renogy Battery Monitor will go into a low power sleep mode, press any key to see the display if needed. When the battery current rises over normal value or the battery starts charging or discharging the Renogy Battery Monitor will wake up.

2. The Renogy Battery Monitor can stay connected to the battery bank since it has a very low self-consumption.

Manual turn off backlight function :

Long press front  Keyboard can turn off the backlight, Long press again  Keyboard can Wake up the backlight.

REGO 12V/400AH Lithium Iron Phosphate Battery w/Self Heating

RBT12400LFPL-SHBT



Battery Specifications		
No.	Item	Specification
1	Rated Capacity	400Ah
2	Nominal Voltage	12.8V
3	Absorption Voltage	14.4V
4	Voltage Range	10V~14.8V
5	Maximum Continuous Charge Current	200A
6	Maximum Continuous Discharge Current	350A
7	Internal Resistance	≤10mΩ
8	Self-discharge Rate	≤1.5%/Month (25°C)
9	SOC Accuracy	< 5%
10	Built-in Heater	Yes (Powered By External Power Supplies)
11	Communication Protocol	RV-C, Modbus
12	Communication Connector	LP16 7-Pin Connector, Bluetooth Module
13	Input/Output Connector	Anderson 350A Connector
14	Momentary Push Button	Yes
15	Cell Temperature Sampling Range	-40°C~85°C
16	Cell Temperature Sampling Accuracy	±2°C
17	Cell Voltage Sampling Range	2V~5V
18	Cell Voltage Sampling Accuracy	≤10mV
19	Battery Voltage Sampling Range	8V~20V
20	Battery Voltage Sampling Accuracy	±500mV
21	Current Sampling Range	-600~600A
22	Current Sampling Accuracy	0A: ±300mA 0A~30A: ±0.3A (>-10°C), ±0.5A (≤-10°C) 30A~600A: ±1% (>-10°C), ±1.5%(≤-10°C)
23	Cell Balancing	Passive Balancing
24	Balancing Current	40mA~200mA
25	Boot Loader	Yes
26	Cycle Life	≥2500 Cycles (100% DOD, 75% EOL, 25°C, 0.2C)
27	LED Indicator	Battery Status Indicator: Yellow/Red Heater Status Indicator: Green/Red Battery Level Indicator: Blue
28	Cascade Communication	Yes
29	Battery Operating Temperature	Charge: 0°C~55°C Discharge: -20°C~60°C
30	Battery Storage Temperature	Within 6 Months: -25°C~45°C Within 7 Days: -30°C~60°C
31	Heater Turn On Detection Duration	60s
32	Heater Turn On Attempts	3
33	Heater Turn On Interval	10min
34	Heater Start Operating Temperature	≤5°C
35	Heater Stop Operating Temperature	≥10°C
36	Heater Rated Power Consumption	200W
37	Heating Speed	5°C/h
38	Protection Rating	IP65
39	Dimension	457 x 329 x 267.2 mm
40	Weight	46±1.5 kg

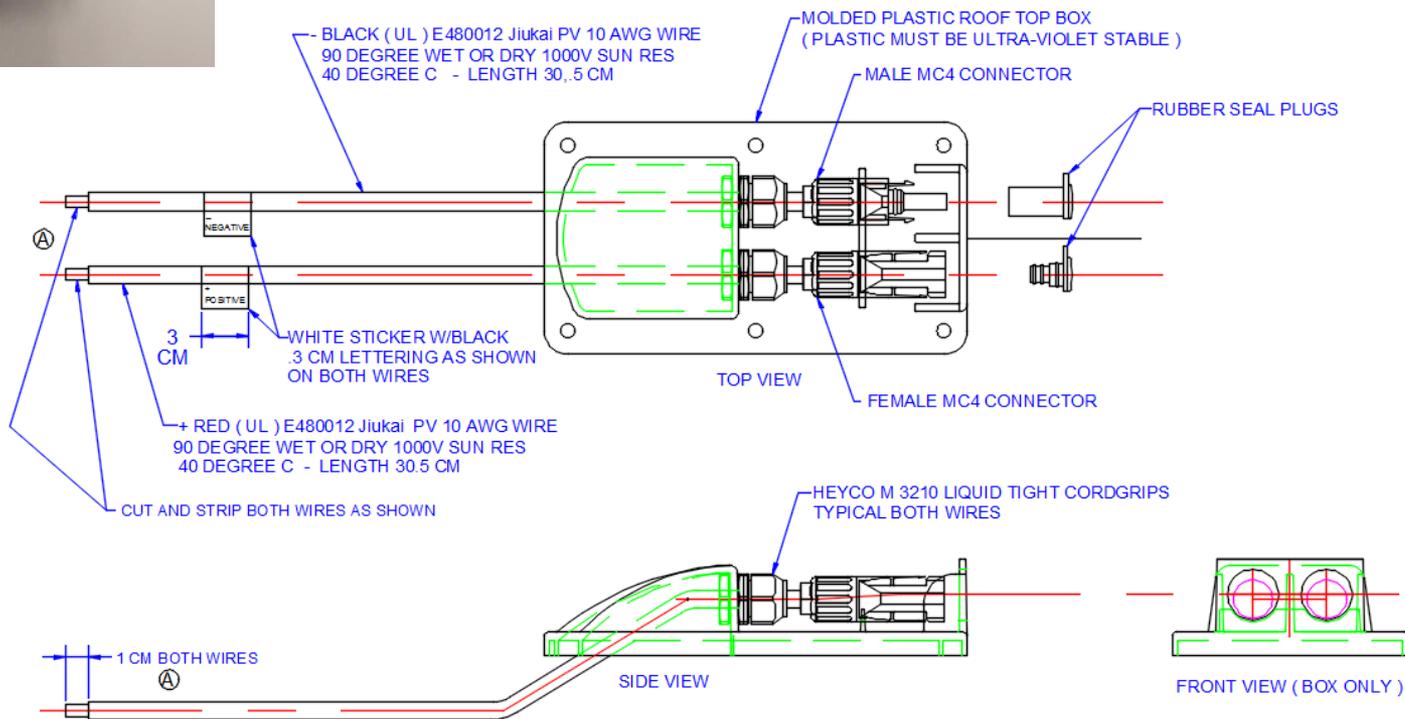
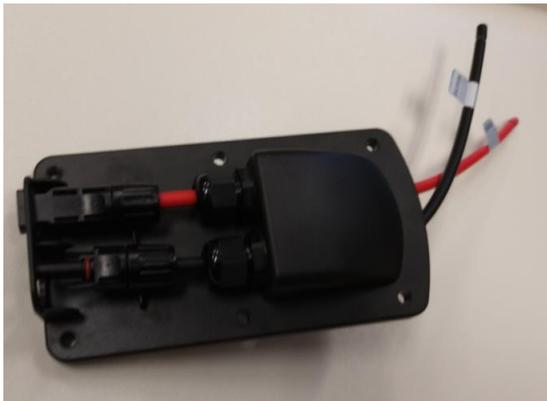
RENOGY

DEHCO ELECTRONICS

SOLAR ROOFTOP JUNCTION BOX W/ MC4 CONNECTORS

SRCB-2 (this is on the roof and the rear wall of your RV used for hooking up solar panel to your charge controller)

 DEHCO ELECTRONICS



A 04/03/19 REMOVED BUTT CONNECTORS ADDED WIRE STRIP DIMENSION

PROPRIETARY AND CONFIDENTIAL
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL +1/16
ANGULAR +.5 DEGREE
TWO PLACE DECIMAL +.05
THREE PLACE DECIMAL +.005

MATERIAL BLACK UV STABLE ABS PLASTIC

FINISH BLACK - GLOSS SMOOTH

DRAWN BY	DL	DATE	04/28/19
CHECKED			
APPROVED			
COMMENTS			

 DEHCO, INC.		DESCRIPTION	
		LARGE SOLAR ROOF TOP BOX ASSY WITH CONNECTORS	
SIZE	PART NUMBER	REV.	
	PT 0219-1133	15	A

POWER PROTECTION MANAGEMENT SYSTEM

LOAD SHED AND BREAKER PANEL ALL IN ONE

CH001



Features

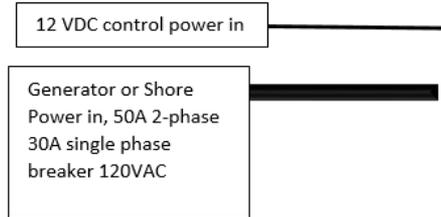
- Combines a breaker panel and energy management system into an all-inclusive unit
- Power management for different available sources including 50 Amp & 30 Amp Service
- Easy configuration by setting circuit priority and max current allowance
- Automatically sheds and re-engages loads to avoid tripping the breaker
- 6 AC relays
- Monitors AC loads independently in real time



Intellitronix Energy Management System

The [Intellitronix](#) Energy Management System combines a standard breaker box with automatic power management for use in a recreational vehicle. It automatically senses and shifts AC loads to best utilize the available power. It decides what AC circuits get power based on user priority settings.

For example, if someone is using a hair dryer and running a microwave oven and toaster, and the refrigerator starts running, that may temporarily be more power than is available, potentially causing a main circuit breaker to trip, or overloading a generator. The [Intellitronix](#) Energy Management System can temporarily shut down the refrigerator power. When enough appliances are turned off, and sufficient power is available, refrigerator power is automatically restored. It also functions as a standard breaker box using standard breakers and wiring.



The Power Module looks almost identical to a standard breaker box and is wired the same way. It adds a 12V input to drive the Energy Management System. Inside, the eight led lights indicate which circuits are using power. (Two center ones are input power)

Up to six 120VAC Circuits out, each with standard breakers, 15A or 20A.

Power Module Specifications

Max input power breaker 50 Amps 2-phase, or 30 Amps single phase 120 VAC

Digital Control System power input 12 VDC, (0.2 amps normally, to 1 Amp max for all circuits opened)

Six, normally on, relay operated 20 Amp circuits

Two positions for input breaker(s), 50 Amp 2-phase, or 30A single phase

Six 15 Amp or 20 Amp standard circuit breakers

Breaker box style enclosure with rear wire entry strain reliefs, H 10" x W 10" x D 4.75, including 1/4" mounting flange.

Power Module Specifications

Max input power breaker 50 Amps 2-phase, or 30 Amps single phase 120 VAC

Digital Control System power input 12 VDC, (0.2 amps normally, to 1 Amp max for all circuits opened)

Six, normally on, relay operated 20 Amp circuits

Two positions for input breaker(s), 50 Amp 2-phase, or 30A single phase

Six 15 Amp or 20 Amp standard circuit breakers

Breaker box style enclosure with rear wire entry strain reliefs, H 10" x W 10" x D 4.75, including ¼" mounting flange.

Control Module Specifications

Three button control, "Up", "Down", "Enter"

Six yellow led power indicators, one for each circuit under control

An OLED graphics display 0.95"

Uses common ethernet cable (up to 300 feet) to connect to the Power Module for data and power

Flush mount circular enclosure 2 1/16" diameter, 1 ¼" deep.

Control Module Display

The top yellow numbers indicate which circuits are on. Circuits temporarily disconnected are indicated by a square block around the number.

There are six main menus/displays, accessed by pressing the "Up" or "Down" buttons:

1) Total Power Display
Load 53% 0.0A
Enter for Reset

2) History Menu
Enter to show
Watts History

3) Max Power Setting Display (use this to set what your shore power cord is plugged into 15,20,30 amp service for example or 25 amp while inverting)
Max Gen Amps
30.0A

4) Circuit Priority Display

1 2 3 4 5 6

Circuit Priority

5) Present Wattage Display (use this to help manage your power consumption the example below is using 221 watts of 115v or AC power)

W 123 57 13

W 0 23 5

6) Present Amperage Display (same as 5 however in amps ,,,, amps x volt = watts)

2.0A 1.0A 4.1A

5.3A 0.3A 1.7A

Pressing Enter at the History Menu shows past power consumption in Watt hours per circuit,

first showing circuits 123, then 456, then previous hours as you press the “Down” button. Pressing the enter button again returns you to the History Menu screen.

0hr ago 123

0.00 0.00 12.0

0hr ago 456

1.20 10.0 0.50

...

23hr ago 123

1.03 2.56 0.00

23hr ago 456

0.00 3.22 1.01

Pressing Enter at the Max Power Setting Display allows editing of the maximum amps allowed by the system. Press Up/Down to set, Enter to save.

Pressing Enter at the Circuit Priority Display allow editing of circuit priorities. An arrow appears below each priority number as you continue to press the Enter button. Pressing the Up or Down buttons changes the priority pointed to by the arrow. A circuit at priority level “1” will be turned off last. Priority level “6” is turned off first when too much power is being used. The default setting is “1 2 3 4 5 6”. This indicates the first circuit (leftmost in display) has the most priority and the sixth circuit has the least priority. A setting of “6 2 3 4 5 1” indicates the first circuit (in first position, far left), has the least priority and the sixth circuit (far right) has the most priority.

Pressing Enter at the Total Power display, (“Enter for Reset”) asks “Reset? Y/N N” press Up/Down buttons until “Reset? Y/N Y” appears. Then press the Enter button. It will show “Resetting... “ for a few seconds. Any lines that were powered off are all powered on. This is like resetting a breaker. It assumes you have reduced the load that had previously turned off some lines.