



***PLUR* GRID**
PORTABLE POWER PACK 44AH



Suitable for camping, 4WD driving, caravanning, boating
and other outdoor activities

Part No. 522390

Contents



44Ah Portable Power Pack x 1



6A 240V AC charging adaptor x 1



12V DC charging lead (10A fused)
1.3M x 1

Safety

- Please read, understand and follow the instruction manual before first use.
- Never expose the Power Pack to rain, water, snow or excessive moisture.
- When charging the Power Pack, DO NOT expose to open flame or cigarettes.

Features

- 1** Digital display with voltage and amperage meter
- 2** RESET switch restores power to the digital display and on/off switches
- 3** 12V DC cigarette lighter socket and 12V DC merit style socket
- 4** Individual on/off switches with LED indicator
- 5** Overload protection by resettable circuit breakers
- 6** 5V DC 2A USB port with on/off switch
- 7** Charge input via AC adaptor (included)
- 8** Anderson style plug/socket allows 2 way charging from solar panel or 12V DC charging lead and also 12V DC output power
- 9** Low Voltage Warning (RED) LED indicator with audible alarm
- 10** Charging (GREEN) LED indicator
- 11** Fully Charged (YELLOW) LED indicator
- 12** Heavy duty ABS case with folding carry handle
- 13** Display switch

- Provides portable power supply for 12V DC fridges, 12V DC lights and other 12V DC appliances.
- Provides USB port for charging 5V DC appliances i.e. mobile phones, tablet, digital camera etc.
- Multiple charging options:
 - 240V AC adaptor
 - 12V DC car adaptor
 - Solar panel via Anderson style plug socket (solar panel not included)



*Accessories not included



Instructions for use

Power appliances:

1. Simply connect the appliance's power plug into the corresponding socket: A, B, C or D.



12V DC
Cigarette
lighter
socket



12V DC
Merit
style plug
socket



5V DC
USB
port



12V DC
Anderson
style plug
socket

2. Press the on/off switch. The LED indicator should illuminate to show the power is supplied to the socket.



3. Press the USB switch ON when charging 5V DC appliances via the USB port. The USB (GREEN) indicator light will illuminate.



4. Insert Anderson style plug from the appliance directly into the Anderson style plug socket on the side of the Power Pack. The digital display will show the VOLTAGE (V) of the Power Pack. The CURRENT (A) amperage display will be zero (00.0).

Overload protection:

12V DC output:

When an overload of 15 Amp power draw is detected on a single DC output socket, the circuit breaker will automatically turn off the power to the socket to protect the Power Pack. Switch OFF the DC output socket and disconnect the appliance from the Power Pack. Press the circuit breaker reset button to resume the power supply. Reconnect the appliance and switch ON the DC output socket.



When an overload of 16 Amp combined power draw is detected from both DC output sockets, both circuit breakers will automatically turn off the power to the sockets to protect the Power Pack. Switch OFF one of the DC output sockets and disconnect that appliance. Press both circuit breaker reset buttons to resume the power supply and reconnect one of the appliances only. Switch ON the DC output socket.

5V DC USB port:

If a power overload is detected while charging a 5V DC appliance, the USB power supply will automatically reset within 2 minutes after the appliance has been disconnected from the USB port.

Digital display:

When the Power Pack is in use with an appliance connected, press the DISPLAY SWITCH and the digital display will show the VOLTAGE (V) of the Power Pack and the CURRENT (A) amperage used by the appliance.



When you press the DISPLAY SWITCH with no appliances connected, the digital display will show the VOLTAGE (V) of the Power Pack and zero (00.0) CURRENT (A) amperage.

When charging with the AC adaptor, the digital display will show the VOLTAGE (V) and the CURRENT (A) that the Power Pack is receiving.



When charging with a solar panel via the Anderson style plug socket, the digital display will show the VOLTAGE (V) only that the Power Pack is receiving. The CURRENT (A) display will be zero (00.0).

If the Power Pack is connected with an appliance and charged at the same time, the digital display will show the VOLTAGE (V) and CURRENT (A) that the Power Pack is receiving.

RESET switch:

To restore power to the digital display screen or the on/off switches, press the RESET switch before recharging.



Note: All appliances and any charging adaptor (or solar panel) must be disconnected from the Power Pack for the RESET switch to operate.

The Power Pack will beep 'twice' to confirm power has been restored. The Power Pack can now be recharged.

Low Voltage Warning:

The Power Pack is equipped with a Low Voltage (low battery capacity) Warning system that activates automatically when the Power Pack voltage decreases to a low voltage level.



WHEN THE POWER PACK IS IN USE and the voltage decreases to 10.5V, the unit will automatically switch OFF and the Low Voltage Warning indicator (RED) will commence flashing with an audible single beep every 5 seconds for 10 minutes and then remain illuminated.

WHEN THE POWER PACK IS STORED AND NOT IN USE and the voltage decreases to 11.5V a single beep will continue every 10 minutes as a first alert warning to charge the Power Pack.

If the Power Pack is not recharged and the voltage continues to decrease to 10.5V, the unit will automatically switch OFF and the Low Voltage Warning indicator (RED) will commence flashing with a single beep every 5 seconds for 10 minutes.

The Low Voltage Warning indicator (RED) will then remain illuminated and the audible beep will stop.

IMPORTANT: THE POWER PACK MUST NOW BE RECHARGED - FULLY RECHARGE EVERY 3 MONTHS.

To restore power to the digital display screen or the on/off switches, press the RESET switch before recharging.

Note: All appliances and any charging adaptor (or solar panel) must be disconnected from the Power Pack for the RESET switch to operate.

IMPORTANT: STORE FULLY CHARGED to maximise performance and battery life of the Power Pack.

Charging the Power Pack:

1) Using the 240V AC charging adaptor (included);

Insert the 5.5mm Jack Plug into the 'Charge Input' socket (7) on the front of the Power Pack and other lead to mains 240V AC. The 'Charging' LED (10) indicator will illuminate (GREEN) once the power is turned on indicating that charging has commenced.

The fully charged indicator (11) will illuminate (YELLOW) once the Power Pack is fully recharged.

Estimated charge time using the 204V AV adaptor is approximately 8-10 hrs.



Using the 12V DC charging lead (included)

2) Using the 12V DC charging lead (included);

Insert the 50A Anderson style plug into the 'Charge Input' socket (8) on the side of the Power Pack.

Note: The 'Charging' LED (10) indicator and the 'Fully Charged' LED (11) indicator WILL NOT illuminate when the Power Pack is being charged by the 12V DC charging lead.

Press the 'DISPLAY SWITCH' (13) to check the Power Pack voltage capacity on the digital display (1).

3) Using a Solar Panel Kit (not included):

IMPORTANT:

A Solar Charger/Regulator **MUST** be used in between the Solar Panel and Power Pack to control the voltage and current input. Failure to do so, will result in catastrophic failure of the Power Pack, causing potential explosion and or severe personal injury.

Insert a 50A Anderson style plug into the 'Charge Input' socket (8) on the side of the Power Pack.

Note: The 'Charging' LED (10) indicator and the 'Fully Charged' LED (11) indicator **WILL NOT** illuminate when the Power Pack is being charged by a Solar Panel Kit.

Press the 'DISPLAY SWITCH' (13) to check the Power Pack voltage capacity on the digital display (1).

Refer to the Solar Charger/Regulator LED indicators or LCD readout for charging status.



IMPORTANT: When using appliances with high current draw i.e. portable fridge, it is recommended to use a solar panel in conjunction with the Power Pack. The solar panel **MUST** be equipped with a regulator/charge controller.

Maintenance

- Check the Power Pack voltage capacity regularly (minimum once a month) and charge the Power Pack as required.
- When the Low Voltages Warning occurs, fully charge the Power Pack immediately before use.

Technical Details

Output Voltage	12V DC and 5V DC (USB)
Battery Type	2 x 22Ah AGM (Absorbed Glass Mat) batteries
Output	12V/15A cigarette lighter socket x 1pc 12V/15A heavy duty merit style socket x 1pc 5V/2A USB port x 1pc 12V DC Anderson style plug/socket
Overload Protection	15A circuit breaker x 2pcs Low voltage warning system with LED indicator and audible alarm Reset switch
Digital Display	Digital voltage and current (amperage) display
Charging Options	6A 240V AC adaptor (included) 12V DC lead (included) Solar panel via Anderson style plug/socket (solar panel not included)
Maximum Charging Current	15A (via the Anderson style plug/socket)
Weight	16kg
Product Size L x W x H (cm)	31.0 x 26.0 x 22.5cm

After Sales Service

For enquiries please contact:
Customer Service Tel: **1300 555 197**
(Mon–Fri 8.30am–5.30pm AEST)
sales@companionbrands.com.au



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