

BPP-M300 USER MANUAL

BIOENNO POWER BPP-M300 300 WATT HOUR INTEGRATED POWER PACK



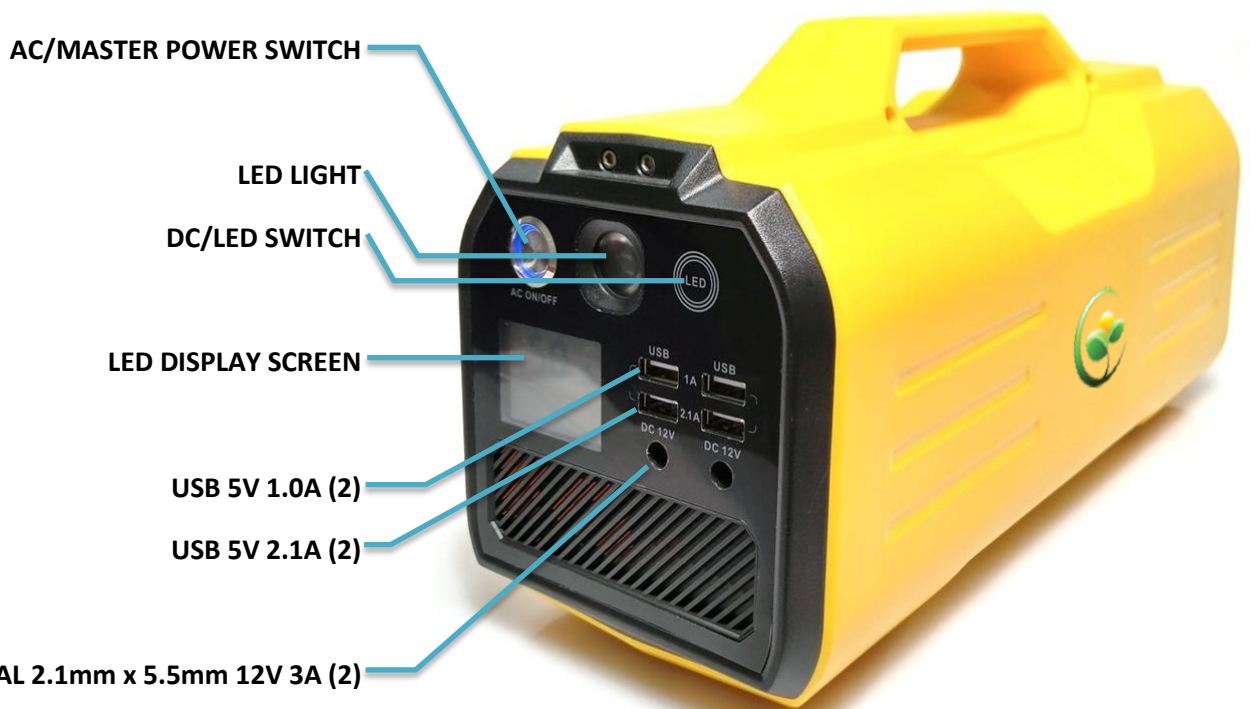
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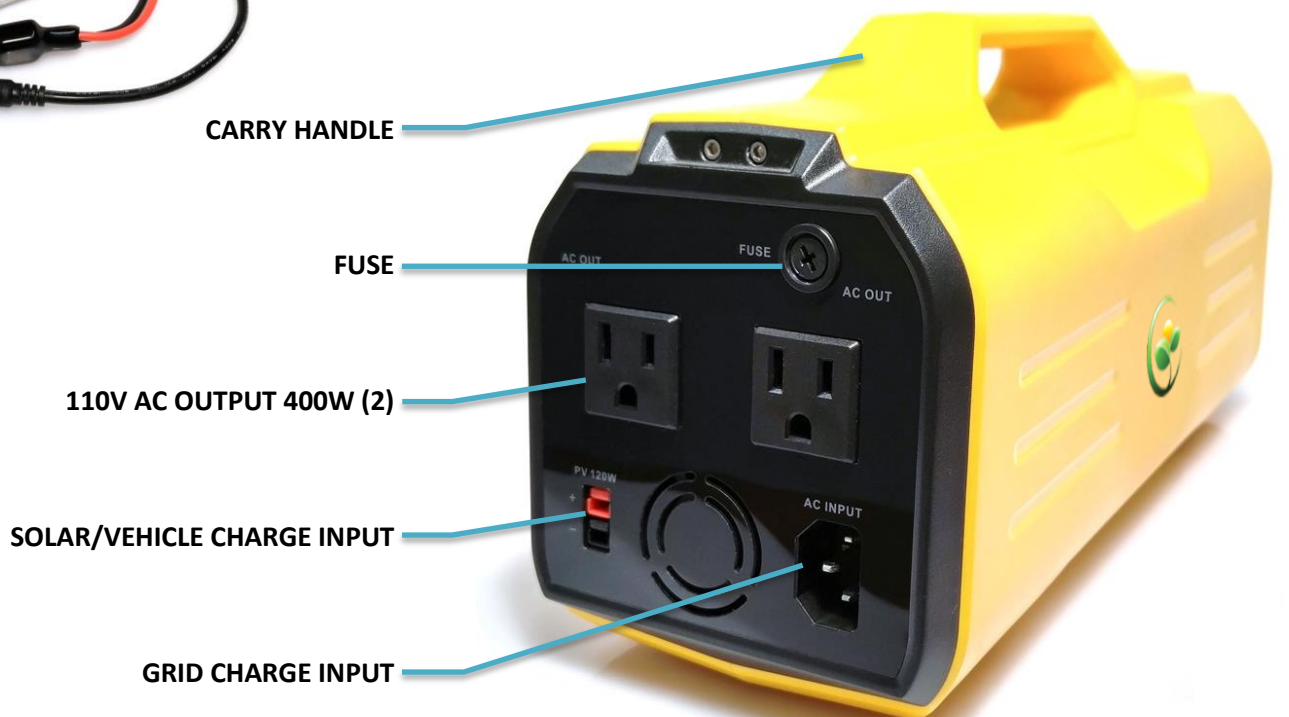
Please read User Manual before usage of product



INTRODUCTION: OVERVIEW OF FEATURES



**Unit is provided with DC-to-DC converter for use with Amateur Radio applications requiring a higher open circuit*



SPECIFICATIONS

General Specifications:

Unit Capacity: 300 Watt Hours

AC Maximum Continuous Discharge: 400 Watts

AC Maximum Peak Discharge: 800 Watts

AC Static Current Draw: 5 Watts on Standby

110V AC Charge Time: 5-6 Hours

Maximum Solar Charge Current: 50 Watts at 18V

Maximum System Operation Temperature: 32°F ~ 113°F (0°C ~ 45°C)

Dimensions: 12.4 in. x 4.9 in. x 6.5 in. (313.5 mm. x 124.0 mm. x 164.8 mm.)

Weight: 7.5 lbs. (3.4 kg.)

DC Output:

2X 12V 2.1mm x 5.5mm Coaxial Socket, 12V 3A Maximum Discharge (13.8V with Ham Radio voltage booster)

2X 5V USB Socket, 2.1A Maximum Discharge

2x 5V USB Socket, 1.1A Maximum Discharge

AC Output:

2X 110VAC Three Prong Socket, 400 Watt

Operations:

- 1) Powering ON: Press "AC ON/OFF" switch to the left of the LED Light. When unit has powered on, the master power switch will glow blue. The display will turn on and display capacity, charge status and the AC/DC output icon will show. This icon is represented by the symbol of a battery in a circle.
- 2) Discharging*: After powering on, AC and DC can be used for discharge; LED display will indicate remaining capacity left on battery.
- 3) LED Light ON: Press "LED" switch to the right of the LED and hold for 3 Seconds or until LED light engages.
- 4) LED Light OFF: Press "LED" switch to the right of the LED and hold for 3 Seconds or until LED light disengages.
- 5) Charging: Insert selected charge cable appropriate to charge method into correct port, unit will begin charging automatically and the "AC/Solar" icon will show. This icon is represented by the symbol of a plug in a circle.
- 6) Long Term Storage: For long term storage, please recharge every 3 months. Keep unit away from high heat and/or high humidity sources, wet environments and direct sunlight as doing so may damage your unit.

*For Ham Radio customers, this unit is suited for low power radios only, to use attach DC-DC converter to 2.1mm x 5.5mm Coaxial Socket, first and then attach radio to PP45 Powerpole output.



DISPLAY, ICONS, TROUBLESHOOTING

Display and Icons:

Icons on the display will reflect normal modes of operation as well as indicate Error Codes in the event of failure of unit functions.

The following icon will appear when unit failure has been detected:



This warning symbol along with an Error Code will appear indicating the type and nature of failure.



The following icons will appear on the display under normal usage conditions

Battery Capacity: This icon represents the capacity remaining as a percentage value. When the battery is charging the battery bar icon will scroll

AC/Solar Input: This icon indicates the Unit is currently charging

AC/DC Output: This icon indicates the unit is powered on and ready for discharge

Error Codes, Faults and Remedies:

ERROR CODE	FAULT/PROTECTION TRIPPED	REMEDY
01	SYSTEM OVER TEMPERATURE	CHECK AMBIENT TEMPERATURE AND COOL DOWN UNIT, STANDARD OPERATION WILL RESUME AFTER TEMPERATURE HAS DROPED BELOW 113°F OR 45°C
02	BATTERY OVER VOLTAGE	DISCONNECT ALL LOAD(S) FROM UNIT AND ATTACH UNIT DIRECTLY TO 110V AC CHARGE SOURCE TO RESET BATTERY, UNIT VOLTAGE LIMIT IS NOT EXCEEDED
03	BATTERY DAMAGE	UNIT'S BATTERY HAS SUFFERED DAMAGE, PLEASE CONTACT BIOENNO POWER FOR REPAIR/REPLACEMENT
04	INVERTER OVER CURRENT	DISCONNECT LOAD(S) FROM AC OUTPUT, CONFIRM LOAD(S) DO NOT EXCEED UNIT MAXIMUM OUTPUT AND CHECK FOR SHORT CIRCUITS IN LOAD(S)/CONNECTIONS
05	INVERTER OVER LOAD	DISCONNECT LOAD(S) FROM AC OUTPUT, CONFIRM LOAD(S) DO NOT EXCEED UNIT MAXIMUM OUTPUT
06	CHARGING OVER VOLTAGE	DISCONNECT CHARGE SOURCE, CONFIRM CHARGE SOURCE DOES NOT EXCEED MAXIMUM INPUT VOLTAGE
07	12V OVER CURRENT	DISCONNECT LOAD(S) ATTACHED TO COAXIAL PORT(S), CONFIRM LOAD(S) DO NOT EXCEED UNIT MAXIMUM OUTPUT
08	USB 5V OVER CURRENT	DISCONNECT LOAD(S) ATTACHED TO USB PORT(S), CONFIRM LOAD(S) DO NOT EXCEED UNIT MAXIMUM OUTPUT
09	INVERTER SHORT CIRCUIT	DISCONNECT LOAD(S) FROM AC OUTPUT, CONFIRM LOAD(S) DO NOT EXCEED UNIT MAXIMUM OUTPUT OR CHECK FOR SHORT CIRCUITS IN LOAD(S)/CONNECTIONS