

# AEB

AMERICAN ENERGY BACKUP



## USER'S MANUAL

[www.americanenergybackup.com](http://www.americanenergybackup.com)

**KEEP THIS MANUAL**

**YOU WILL IT NEED TO REFERENCE FOR WARRANTY SERVICE**

**AMERICAN ENERGY BACKUP – 4134 EHLMANN ROAD- ST PETERS, MO 63376, MAKES THIS LIMITED WARRANTY TO THE ORIGINAL PURCHASER. THIS WARRANTY IS NON TRANSFERABLE.**

**AMERICAN EVERGY BACKUP GENERAL LIMITED WARRANTY:**

American Energy Backup (AEB) warrants its products for a period of 1 YEAR to the original purchaser from the date of original purchase against all defects in materials and workmanship. If an AEB qualified service technician determines that a product malfunction is due to either defective material or workmanship, then the purchased product will be repaired or replaced at the discretion of AEB with the same or comparable model. There are no express or implied warranties covering this product other than those set forth in this warranty.

**TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND THIS INSTRUCTIONAL MANUAL. THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING THE OPERATION AND WARRANTY OF THIS PRODUCT.**

**THIS LIMITED WARRANTY IS VOID** under the following conditions:

- 1) The product is misused, subjected dropping or careless handling, operated under conditions of extreme temperature or moisture (including but not limited to submersion in water or other liquids), shock, or vibration beyond AEB’s recommendations for safe and effective use.
- 2) The product lock bolts are cut, serial numbers are missing, or the product or any of its components are disassembled or repaired by anyone who is not an AEB factory authorized service representative.
- 3) If any unauthorized accessory, charging device or component is connected to the pack and damages it. ONLY components, chargers, and devices supplied by AEB may be used in conjunction with the power packs.
- 4) The electrical connections for AEB product accessories, switches, and any other product components are modified or altered in any way by anyone other than an AEB factory authorized service representative.

**PRODUCT PURCHASED (Circle ALL that apply):**

POWERPACK 2000    OX MINI POWER PLANT    SOLAR KIT    200 AMP HOUR PIGGYBACK    100 AMP HOUR PIGGYBACK

**DATE PURCHASED:** \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**PACK SERIAL #:** \_\_\_\_\_

**SOLAR PANEL (circle one):** SERIAL #: \_\_\_\_\_

# TABLE OF CONTENTS

INTRODUCTION / WARRANTY .....	1
TABLE OF CONTENTS .....	2
WARNING LABELS / WARNINGS .....	2
CONTROLS AND FUNCTIONS .....	3-4
SOLAR ACCESSORIES .....	5
PRODUCT SPECIFICATIONS .....	6

## WARNING LABELS



THIS DEVICE CONTAINS ELECTRICAL COMPONENTS. TO AVOID ELECTRIC SHOCK, KEEP THIS UNIT AWAY FROM WATER. THIS DEVICE IS NOT A TOY – KEEP AWAY FROM CHILDREN. USING THIS DEVICE IN A WAY NOT INTENDED COULD RESULT IN ELECTRICAL SHOCK, INJURY, OR DEATH.

## NOT TO EXCEED 15 AMPS

THESE UNITS ARE RATED FOR A MAXIMUM LOAD OF 15 AMPS. DO NOT PLUG IN ANY DEVICES WITH A LOAD MORE THAN THE RECOMMENDED AMP LOAD.



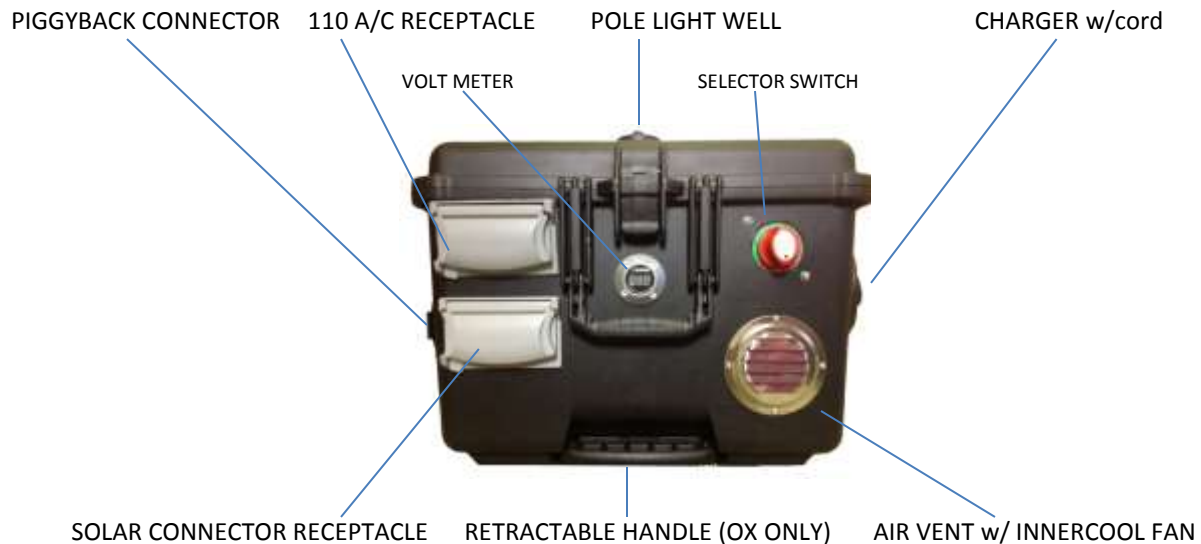
ELECTRICAL COMPONENTS -KEEP AWAY FROM WATER- DO NOT SUBMERGE

KEEP THIS UNIT AWAY FROM MOISTURE. IF EXPOSED TO MOISTURE, ELECTRICAL SHOCK OR DAMAGE TO THE UNIT MAY OCCUR.

## WARNINGS

1. THIS DEVICE IS NOT A TOY- KEEP AWAY FROM CHILDREN
2. 110 OUTLET - ONLY PLUG IN 110 AC DEVICES TO THE 110 AC OUTLET. NEVER PLACE ANY OBJECT OTHER THAN AN APPROVED 110 AC PLUG INTO THE OUTLET- PLACING ANY FOREIGN OBJECT IN THE OUTLET, MAY RESULT IN ELECTRIC SHOCK, SEVERE INJURY, OR DEATH
3. SOLAR RECEPTACLE -ONLY PLUG IN APPROVED SOLAR and AEB DEVICES INTO THE SOLAR / CHARGE RECEPTACLE. PLACING ANY FOREIGN OBJECT INTO THE SOLAR CHARGE RECEPTACLE MAY RESULT IN ELECTRIC SHOCK, SEVERE INJURY OR DEATH.
4. PIGGYBACK RECEPTACLE- ONLY PLUG IN A PIGGYBACK PLUG (PROVIDED BY AEB) INTO THE PIGGYBACK RECEPTACLE. - PLACING ANY FOREIGN OBJECT IN THE OUTLET, MAY RESULT IN ELECTRIC SHOCK, SEVERE INJURY, OR DEATH
5. AVOID MOISTURE- THIS IS AN ELECTRICAL DEVICE- EXPOSING THIS DEVICE TO MOISTURE OR SEVERE HUMIDITY MAY DAMAGE THE UNIT OR CAUSE ELECTRIC SHOCK TO THE USER
6. DO NOT USE THIS UNIT NEAR FLAMMABLE MATERIALS, FUMES, OR GASES
7. TO MAINTAIN PROPER OPERATING TEMPERATURE, AVOID PLACING THE UNIT NEAR SOURCES OF HEAT OR IN DIRECT SUNLIGHT
8. DO NOT DROP YOUR POWERPACK OR SUBJECT IT TO SEVERE VIBRATION-THIS WILL DAMAGE THE PACK OR CAUSE BODILY INJURY
9. MEDICAL EQUIPMENT CAN BE USED IN CONJUNCTION WITH THIS UNIT **IF** THE MEDICAL EQUIPMENT IS COMPATIBLE WITH MODIFIED SINE WAVE INVERTERS. **CHECK WITH THE MEDICAL EQUIPMENT MANUFACTURER. USING NON-COMPATIBLE EQUIPMENT MAY CAUSE DAMAGE TO THE MEDICAL EQUIPMENT OR CAUSE IT TO RUN IMPROPERLY**

## POWER PACK CONTROLS AND FUNCTIONS



**110 RECEPTACLE** – Will power any AC 110 current / 50-60 Hz device (***DO NOT EXCEED recommended 15 AMP LOAD***). ALWAYS check the device specs before plugging into the Pack outlet. Plugging in or using ANY device that exceeds these specs **may cause damage to the POWER PACK or device.**

**BATTERY VOLT METER** – Gives the user an exact reading of battery charge.

FULL CHARGE – 13+

NEED TO CHARGE- 11.5 or under

**SELECTOR SWITCH** – Turns the system on and sends power to the receptacle. There are 3 settings / power options available with this switch.

SETTING 1- Turns the Power Pack ON and supplies power to the 110 receptacle by the stored energy in the pack

SETTING 2- Power is being supplied by PiggyBack- This setting is only used if a PiggyBack is connected

SETTING 1&2- If a PiggyBack is connected to your pack, this setting will allow user to increase the amount of AMP hours added. Power is being supplied by the Power Pack while being replenished / recharged by the PiggyBack.

***Ex: OX Mini Power Plant + 200 Amp Hour PiggyBack at 1&2 position = 400 AMP Hours***

**INTERNAL BREAKER**- Your Power Pack is equipped with an internal fuse / breaker. If you overload your 15 AMP receptacle, an alarm will sound and power to the receptacle and pack will be shut off. Simply TURN OFF the OX, unplug the device from the outlet, and then turn the OX back on. The internal fuse / breaker will reset itself. (***DO NOT EXCEED recommended 15 AMP LOAD***)

**POLE LIGHT BASE- (Ox only)** The base is located on the top of your Ox Mini Power Plant and will allow the user to plug in a 12 volt pole light. (Pole light not included) Your pole light is plugged straight into the base and will light when the Ox Mini Power Plant switch is turned to the ON position.



**CHARGER and CORD-** The Power Pack charger is located on the outside of your Pack. Plug the charger into a 110 outlet to charge your Power Pack. A RED light indicates the Pack is charging while a GREEN light indicates your Pack is fully charged. It is recommended that you FULLY CHARGE your pack upon delivery as well as charge it after every use. This will keep your battery bank fresh as well as give it longer life.

**AIR VENT / INNERCOOL FAN-** Provides proper ventilation for your Power Pack. Always keep the Ventilation Plates free of obstruction to ensure your Power Pack maintains proper temperature and ventilation. Your OX vent is equipped with an INNERCOOL fan, circulating air through your pack while keeping it cool. To maintain proper operating temperature, NEVER place unit in Direct Sunlight or operate it near heat sources.

**PIGGYBACK CONNECTOR RECEPTACLE-** Allows you to connect a PiggyBack Pack to your existing Power Pack, giving you more Amp Hours. Plug in the PiggyBack Connector Cord to the PiggyBack Receptacle to supply your Power Pack with additional AMP Hours and charge life. To connect, make sure you turn the Connector Dial CLOCKWISE to LOCK the Connector Cord in place.



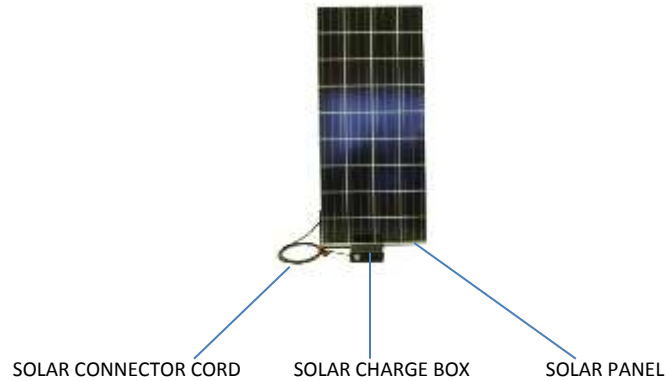
**SOLAR CHARGE RECEPTACLE-**This receptacle is found on all Power Packs and makes them Solar Capable. (*Solar Kit available at additional cost*) Connect your Solar Panels to your Solar Controller charge Box, and then your Charge Box directly to your Power Pack to charge it.

*\*ALWAYS CONNECT RED to RED – BLACK to BLACK*



## SOLAR KIT

Your Solar Kit will come complete with 2- 135 WATT **SOLAR PANELS**, a **SOLAR CONNECTOR CABLE**, and a **SOLAR CONTROLLER CHARGE BOX**. *\*Keep in mind that charge rates and times will vary depending upon the amount of direct sunlight supplied to your solar panel, outdoor temperature, and time of year.*



**SOLAR PANELS**- Your Power Pack or Piggyback can be charged by connecting your 135 WATT solar panels to your Solar Charge Box. *(Place your panels in direct sunlight and connect it directly to the Solar Charge Box)* The Solar Charge Box is then connected directly to your Power Pack. Charge times will vary depending on the amount of available direct sunlight.

**SOLAR CABLE** -The Solar Cable is used to connect your Solar Panels to your Solar Charge Box.

**SOLAR CHARGE BOX**-The Solar Charge Box transfers energy harvested from the sun, through the panels, and directly to your Power Pack to charge it. Connect your Solar Panels directly to the Solar Charge Box via the Solar Connector Cord. The Solar Charge Box is then connected directly to your Power Pack.

Your Solar Charge Box is labeled “To Solar Panel” and “To Power Pack”. Connect your Solar Cable accordingly.

*\*ALWAYS CONNECT RED to RED – BLACK to BLACK and ALWAYS **DISCONNECT BY PULLING BY THE TABS, NOT THE WIRE***



1. Connect your Solar Panels to your 50' Solar Cable
2. Connect the Solar Cable to your Solar Controller Box at the connector labeled “To Solar Panel”
3. Connect the Solar Controller Box directly to your Power Pack via the connector labeled “To Power Pack”
4. To insure proper solar charging, all RED/BLACK connectors must be clicked firmly together
5. The **GREEN CHARGE LIGHT** on your Solar Charge Box will be lit when a proper connection is made to the Solar Panels

# ATTENTION!

**Before using your OX Mini Power Plant, make sure you plug in and charge your pack.**

**A full charge will be noted by the green indicator lights on your external charger.**



Green Indicator Lights

**FULLY CHARGE your OX Mini Power Plant once a month and after every use to keep your battery bank fresh.**