

## FEATURES

The Dakota Lithium 1500W inverter has many protection safeguards including high temperature, over-voltage, low-voltage, short-circuit, overload, and other functions to prevent damage to your inverter.

Other features include:

Advanced circuit design, high conversion efficiency, rich interface, and stable output voltage.

A metal casing that provides heat dissipation.

Advanced anti-jamming technology, function protection circuit and soft start circuit\*, and convenient operation mode.

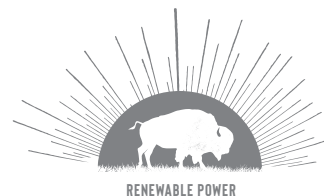
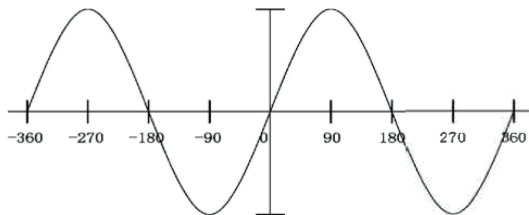
Drop-down and fast recovery function to reduce the load on the instant overload.

\* The soft-start circuit has the ability to raise the output voltage step by step during startup to eliminate the cold start failure, and at the same time, it has instantaneous output voltage.

## PARAMETERS

| TYPE                       | BEP1500S   |            |  |  |
|----------------------------|--|------------|--|--|
| Output                     | Rated Power  | 1500W      |  |  |
|                            | Peak Power   | 3000W      |  |  |
|                            | Output voltage   | 110V       |  |  |
|                            | Frequency  | 60Hz       |  |  |
| WaveForm                   | Pure Sine Wave   |            |  |  |
| Input                      | Battery Voltage  | 12V        |  |  |
|                            | Rang Voltage   | 10-15V     |  |  |
|                            | Open Circuit Losses  | 1.8A(12V)  |  |  |
|                            | Efficiency   | ≥90%       |  |  |
| Input protected of battery | Alarm voltage of low voltage   | 10.5V±0.5V |  |  |
|                            | Protected voltage of battery low voltage   | 10V±0.5V   |  |  |
|                            | Protected voltage of battery high voltage  | 15.5V±0.5V |  |  |
|                            | Anti-connected protect battery   | No-support |  |  |
| Other protect              | High temperature protection, Shortcircuit Protection, Overload Protection            |            |  |  |
| USB                        | Support  |            |  |  |
| FAN                        | Intelligent fan, high temperature, load self start                                   |            |  |  |
| Working environment        | Working temperature 0-40 °C @ 100% load, working humidity 20-90 RH, no refrigeration |            |  |  |
| Dimension(mm)              | 384*180*56   |            |  |  |
| Weight(kg)                 | 4  |            |  |  |

## PURE SINE-WAVE FORM



### CONTACT INFORMATION:

SALES: 1.855.743.327 sales@dakotalithium.com

SUPPORT: support@dakotalithium.com

225 S. LUCILE STREET  
SEATTLE WASHINGTON 98108

DAKOTALITHIUM.COM



## 1500W PURE SINE-WAVE INVERTER

## USER MANUAL



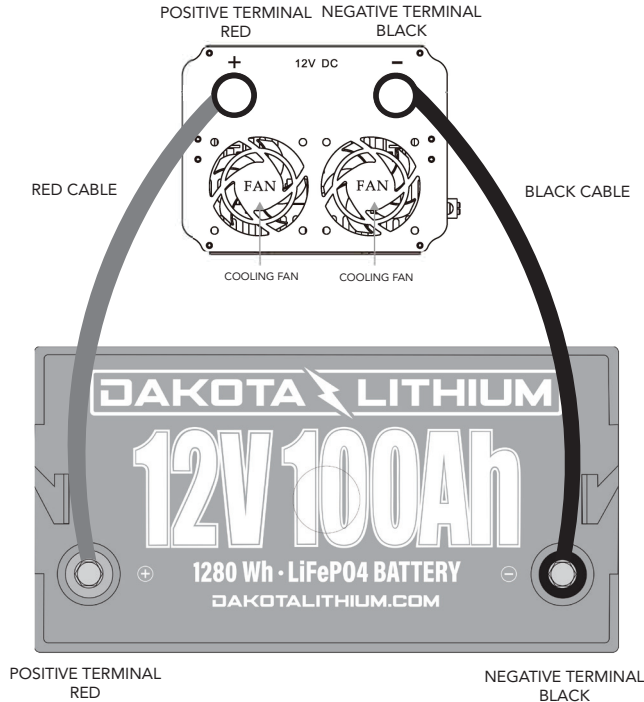
MODEL: BEP1500S

In order to ensure reliable performance and safety please read and review the installation instructions and safety guidelines before using the inverter.

# INTRODUCTION

The Dakota Lithium 1500W inverter changes the DIRECT CURRENT (DC) from your battery to ALTERNATING CURRENT (AC) required by electronics, tools or appliances. The output wave form is a pure sine wave similar to the power that comes from your house outlets.

## HOW TO CONNECT AND DISCONNECT THE INVERTER TO THE BATTERY



**NOTE: THIS IS A 12V INVERTER AND MUST BE CONNECTED TO A 12V BATTERY**

### TO CONNECT

1. Make sure the inverter power switch is off
2. Connect the NEGATIVE BATTERY CABLE (BLACK) to the NEGATIVE TERMINAL (BLACK) of the inverter.
3. Connect the POSITIVE BATTERY CABLE (RED) to the POSITIVE TERMINAL (RED) of the inverter.
4. When you power on the inverter the STATUS INDICATOR will be GREEN indicating it is working properly.

### TO DISCONNECT

1. Make sure the inverter power switch is off and any appliances are unplugged from the inverter
2. Disconnect the POSITIVE BATTERY CABLE (RED) from the POSITIVE TERMINAL (RED) of the inverter.
3. Disconnect the NEGATIVE BATTERY CABLE (BLACK) from the NEGATIVE TERMINAL (BLACK) of the inverter.

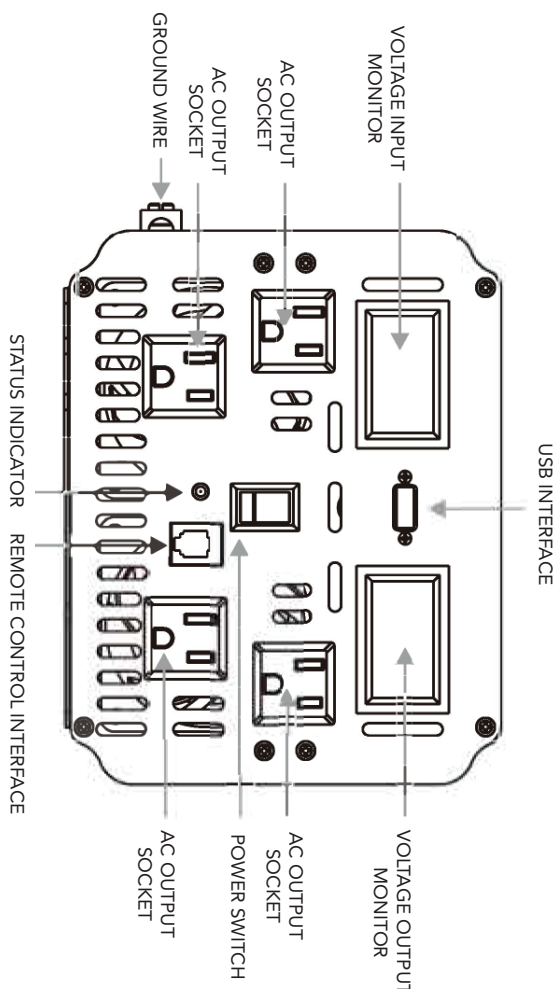
# USING YOUR INVERTER

Your Dakota Lithium 1500W Inverter has 4 AC OUTPUT SOCKETS (wall plug type) and 1 USB PORT.

The inverter also lets you monitor the voltage input and output.

1. Make sure your inverter is connected to a 12V battery and the POWER SWITCH is in the OFF position.
2. Plug the items needing power in the appropriate socket or port.
3. Turn on the inverter. The STATUS INDICATOR should be green.
4. Turn on the items needing power.
5. To unplug the item. Turn off the item. Turn off the inverter. Then unplug the item.

**NOTE:** If the STATUS INDICATOR is red this might mean you have overloaded the inverter. Following the above procedure, remove one item at a time till the STATUS INDICATOR is green.



# ATTENTION:

- AVOID FLAMMABLE GAS**  
Do not connect the inverter to the battery in the vicinity of flammable gas in case of sparking during the connection process
- DO NOT CONNECT IN PARALLEL WITH MUNICIPAL ELECTRICITY**  
The inverter will be damaged when the output is connected in parallel with municipal electricity.
- KEEP OUT OF REACH OF CHILDREN**  
Do not use or store around unsupervised children.
- DO NOT MODIFY THE INVERTER**  
Do not modify or take apart the inverter.
- BE CAREFUL USING METAL TOOLS AROUND THE INVERTER**  
Using metal tools around the inverter could lead to electric shock and damage to the inverter.
- DO NOT USE WET HANDS WHEN TOUCHING THE INVERTER**  
Using wet hands around the inverter could lead to electric shock and damage to the inverter.
- AVOID OPEN FLAMES OR HIGH TEMP ENVIRONMENTS**  
Avoid using the inverter close to open flames or extreme temperature environments.
- AVOID CRUSHING OR BANGING THE INVERTER**  
Abuse of your inverter will lead to damage and safety issues.
- NOT RECOMMENDED FOR USE WITH MEDICAL DEVICES**  
We do not recommend using the inverter for medical devices. We are not responsible for any harm caused by use of the inverter by the owner if they choose to use it to power a medical device.
- CONNECT GROUND WIRE**  
Please connect the ground wire for safe inverter usage.
- AVOID EXPOSURE TO WATER**  
Exposure to water may short circuit and damage the inverter.
- FULLY INSERT THE PLUG FROM THE DEVICE BEING USED**  
Make sure that the plug is fully inserted into the receptacle or port to avoid shock or damage to the inverter or device.