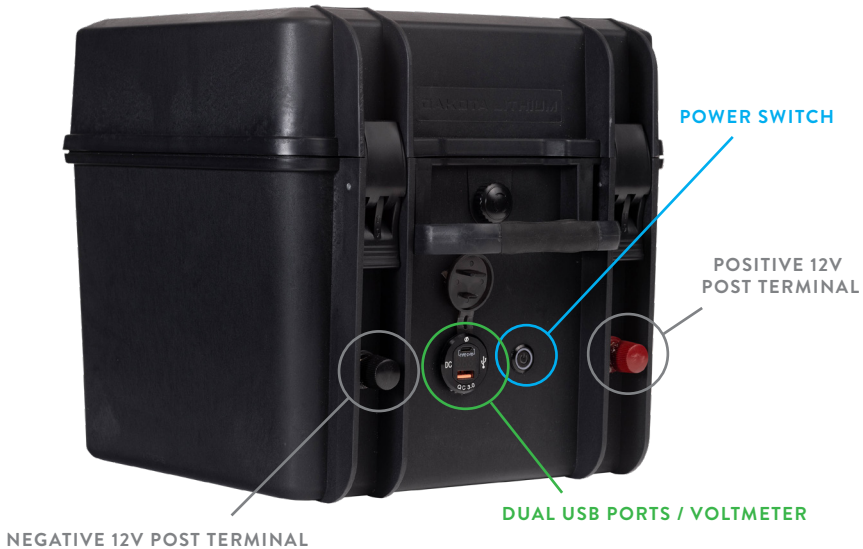


**DAKOTA**  **LITHIUM**

**POWERBOX+**

**50** 

**INSTRUCTION GUIDE**



POWER SWITCH

POSITIVE 12V  
POST TERMINAL

DUAL USB PORTS / VOLTMETER

NEGATIVE 12V POST TERMINAL

## USING THE USB PORTS / VOLTMETER

Press the **POWER BUTTON** found on the front of the box (this only turns on the **USB OUTLETS** and **VOLTMETER**).

Flip up rubber port cover of **DUAL USB PORTS (USB-C, USB 3.0) / VOLTMETER**.

Note **VOLTMETER** voltage readout, which confirms **DUAL USB PORTS** are active.

Use **DUAL USB PORTS (USB-C, USB 3.0)** for smaller electronics, such as phone chargers.

Voltage and amperage outputs: 5V 3.1A • 7V 2.4A • 9V 2A • 12V 1.5A

## HOOKING UP LARGE ELECTRONICS TO THE POST TERMINALS

Make sure your device is powered off.

Installing an external circuit breaker or fuse between the Powerbox and your device for extra protection is advised. Minn Kota and other trolling motor companies recommend a 60 amp fuse.

Unscrew the caps on the **TERMINAL POSTS**.

Slide ring terminals or other connections onto the appropriate terminals.

Screw the caps back onto the **TERMINAL POSTS** tightly to ensure the connections don't move.

POWER SWITCH

2 x AC WALL  
SOCKET PLUGS



USB PORTS - 3 x USB PORTS, 1 x SMART USB PORT

## USING THE MULTI-FUNCTION INVERTER

Press and hold the **POWER BUTTON**.

The screen should light up and provide the input voltage from the battery, battery level percentage, and output AC voltage.

Plug in devices as needed

Rated Outlet Power: 110V 300W

Peak Outlet Power: 110V 600W

To shut off the inverter, press and hold the **POWER BUTTON**.

NOTE: You should hear a small beep when the inverter turns on and off.

**Be sure to shut the inverter off when not in use to minimize power draw from the battery.**

**If your inverter ever trips due to over discharging or other reasons, simply turn the system off and back on.**

## HOW TO WATERPROOF

With an IP rating of 67, this means the Powerbox+ 60 is waterproof and submersible when the box is latched and the pressure valve on the front is closed. IP 67 defines submersible as being held up to 3 ft underwater for 30 minutes or less.

## JUMP STARTING YOUR CAR BATTERY

Make sure all power to the car is cut off.

- Connect the **POSITIVE CLAMP (RED)** of jumper cable to the dead car battery.
- Then connect the opposite **POSITIVE CLAMP (RED)** to the **POSITIVE TERMINAL POST (RED)** on the front of the Powerbox+ 60.
- Connect the **NEGATIVE CLAMP (BLACK)** of jumper cable to the dead car battery.
- Then connect the opposite **NEGATIVE CLAMP (BLACK)** to the **NEGATIVE TERMINAL POST (BLACK)** on the Powerbox+ 60.

Start the car.

- Disconnect the **NEGATIVE CLAMP (BLACK)** of jumper cable from the car battery.
- Then disconnect the opposite **NEGATIVE CLAMP (BLACK)** to the **NEGATIVE TERMINAL POST (BLACK)** on the Powerbox+ 60.
- Disconnect the **POSITIVE CLAMP (RED)** of jumper cable from the car battery.
- Then disconnect the opposite **POSITIVE CLAMP (RED)** to the **POSITIVE TERMINAL POST (RED)** on the Powerbox+ 60.

**NOTE: BATTERY PROVIDES 1,000 COLD CRANKING AMPS (CCA) THROUGH TERMINAL POSTS ONLY**

## CHARGING YOUR POWERBOX+ 60

**DO NOT ATTEMPT TO CHARGE YOUR BATTERY IF THE INTERNAL TEMPERATURE IS BELOW 32°F ( 0°C ).**

Plug in your charger. The light will be **GREEN**.

NOTE: For the best results Dakota Lithium recommends using a lithium specific charger that charges at 14.4V.

Remove the caps on the **TERMINAL POSTS** on the front of the Powerbox+ 60.

Attach provided charger leads to appropriate **TERMINAL POSTS**.

- **RED LEAD** to **RED TERMINAL POST**. **BLACK LEAD** to **BLACK TERMINAL POST**.

NOTE: Nothing on the Powerbox+ 60 needs to be turned on.

The light on your charger should change from **GREEN** to **RED** during charging.

Your battery will be fully charged when the charger light turns back to **GREEN**.

Install the caps back on the **TERMINAL POSTS**.

Check to see if your Powerbox+ has power.

## **DL+ 12V 60AH BATTERY SPECIFICATIONS:**

- STORAGE CAPACITY: 60 ampere hours (Ah)
  - VOLTAGE: 12.8V
  - ENGINE STARTING POWER: 1,000 Cold Cranking Amps (CCA) (through terminal posts only)
  - OPERATING TEMPERATURE: -20°F min, +150°F max optimal operating temps.
    - Avoid charging below 32°F.
    - Charge cut off at 23°F / - 5°C.
    - BMS high temp cut off at 167°F / 75°C.
  - DISCHARGE (through terminal posts):
    - 100 A max continuous discharge
    - 750A max 2 second pulse
    - 650A max 5 sec pulse.
  - CHARGE (through terminal posts):
    - Recommend for longest life 60A or less (1C)
    - Max continuous 80A (1.5C)
- NOTE: THE DL+ 60Ah IS LIMITED TO AN ALTERNATOR CHARGING PROFILE OF 80 AMPS OR LESS.**
- 14.4 V recommended, 15 V max, BMS overcharging protection will be cut off at 15V.



## **MULTI-FUNCTION INVERTER SPECIFICATIONS:**

- **INVERTER RATING:**

- Input - 12 Volts DC
- DC Current: 30A
- Output - 110V AC
- 300 watts rated
  - 350 watt overload shutoff protection
- 600 watts peak

- **FREQUENCY:**

- 60Hz

- **OUTLETS:**

- 2x AC wall socket plugs
- 3x USB charging ports 5V @ 2.1A
- 1x Smart USB charging port 5v, 9v, 12v @ 2.1A

### **WORKING TEMPERATURE:**

- 32-104°F / 0-40°C



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