

PWRbox MINI User Manual

Introduction

Congratulations on purchasing the PWRbox MINI by Powerwerx. This portable power station is ready to use right out of the box. Before using your new power box, we suggest that you first charge the battery (refer to battery charging instructions). This power box is offered in two models, 10Ah and 15Ah. These two models are the same unit but differ when it comes to battery capacity. The 15Ah version provides an additional 50% longer battery life (refer to operational time chart below). This unit is perfect for charging smartphones, tablets, fish finders, handheld GPS, and many other small 12V devices. If the power goes out, or you are camping in a remote location, the PWRbox Mini can keep your favorite small devices powered up and ready to go.

Typical Operation Time or Number of Charges for Consumer Devices

	PWRbox-10	PWRbox-15
Included Battery Size	10 Amp Hour (102Wh @ 85%)	15 Amp Hour (153Wh @85%)
Smart Phone (5-8W)	13-20 Charges	19-30 Charges
Fish Finder (12-24W)	4-8 Hours	6-12 Hours
Portable GPS (24-36W)	8-12 Hours	12-18 Hours
Tablet (25-40W)	2-4 Charges	3-6 Charges
12VDC Fridge (10-18W)	5-10 Hours	8-15 Hours
12VDC Mattress Pump (75W)	Up to 1.5 Hours	Up to 2 Hours
QRP HF Radio 12V (80% Rx/20% Tx)	7-9 Hours	12-16 Hours
VHF Marine Radio 12V (90% Rx/10% Tx)	7-8 Hours	11-14 Hours
Built-in LED Work Light (3W)	Up to 34 Hours	Up to 51 Hours

The run times and number of charges listed above are estimates as every device is different. Please use this chart as a guide for selecting the best PWRbox MINI model for your application.

DC Power Up To 15A (switched)

The side mounted red backlit circuit breaker switch is rated at 15 amps maximum and turns on/off power to the blue digital voltmeter, (2) USB fast QC3.0 charging ports, and the automotive 12V socket. The voltmeter and USB charger draw a small parasitic load on the battery even when not in use.

For this reason, it is recommended that you turn the red toggle switch to the OFF position when not in use.

High Current DC (non-switched)

(2) Anderson Powerpole connectors, compatible with the PP15/30/45 series, provide high current DC output, wired directly to the battery and protected by an inline fuse.



Built-in LED Worklight

LED worklight with dedicated on/off button. Works as a powerful and portable flashlight.

Built-in Battery Status Voltmeter

Use the built-in voltmeter as a guide to your battery's status:

14.5 ~ 13.3V	100% ~ 80%	Full Battery Level/Charged
13.2 ~ 12.5V	75% ~ 45%	Medium Battery Level
12.4 ~ 11.5V	40% ~ 10%	Low Battery Level/Recharge

Battery Charging

It is recommended that you initially charge your new power box battery for 8-12 hours before use. We also recommend you fully charge your power box at least once a month to maintain the charge. You may safely leave the battery charger connected continuously to your power box. After using your power box, it is always recommended you recharge the battery before storage.

Battery Charger Included

Includes AC-DC battery charger with Anderson Powerpole connector. Output 14.6VDC, 2A (CC/CV charge profile for LiFePO4 batteries).

Specifications

	PWRbox-10	PWRbox-15
Battery Capacity	10 Amp Hours	15 Amp Hours
Battery Chemistry	LiFePO4 (Lithium Iron Phosphate)	
Battery Protection	20 Amp Inline Fuse	30 Amp Inline Fuse
Max Current (Auto Socket)	15 Amps	15 Amps
Max Current (Combined)	20 Amps	25 Amps
Nominal Voltage	12 Volts	
Charging Voltage	14.6 Volts (CC/CV charge profile for LiFePO4 batteries)	
Dual USB Outputs	Up to 2.6A @ 5V USB device charging. Supports QuickCharge QC3.0, QC2.0, BC1.2, Apple, Samsung Adaptive Fast Charge Protocol (AFC) and Huawei Fast Charging Protocol (FCP)	
Operating Temperature	14°F to 140°F (-10°C to 60°C)	
Exterior Dimensions	10.75 in. L x 8.9 in. W x 4.5 in. H (273 mm x 226 mm x 114 mm)	
Weight	5.4 lbs. (2.5 kg)	7.0 lbs. (3.2 kg)

Tips

Never use your power box to jump start a vehicle, as it may damage the internal battery. Always switch the side red power switch to OFF when not in use. Close dust covers on the automotive socket, USB charge ports and Powerpole connectors when not in use.

We recommend you fully charge your power box at least once a month to maintain maximum charge.

Troubleshooting

Unit will not turn ON

- Check And replace the internal ATO blade battery fuse with the same (20A or 30A) ATO fuse if needed, retry.
- Recharge battery until resting voltage is at least 13.4V.

Red breaker switch trips OFF

- Reduce current draw going through 12V cigarette socket to less than 14 amps total, retry.
- Unplug all devices, turn red rocker switch OFF, then ON. Now, try plugging in your devices.

Optional Accessories



Folding 60W Solar Panel
SKU: FSP-60W



Solar Charge Controller
SKU: MPPT-150-14.6



SAE to Powerpole Adapter
SKU: Bullet-2-PP