

SIMPLIPHI YOUR POWER WITH THE POWERBANK BATTERY POWERED GENERATOR

The PowerBank™ is a battery powered AC generator and Uninterruptible Power Supply (UPS) that stores electricity for use when and where power from the grid is unavailable: remote, off-grid, emergency and black-out scenarios. The PowerBank™ stores electricity from solar and wind chargers (DC input), conventional generators, and the grid (AC input).

As a reliable primary or back-up power supply, the PowerBank™ is safe for indoor use, is non-toxic and does not require ventilation or cooling.

Fully charged, the PowerBank™ 5.4 delivers 5.4 kWh, a sufficient reserve to operate computers, appliances, AV equipment, power tools, fans, electric blankets and medical equipment for hours or days at a time (see run-time chart).



- Mobile AC power for critical equipment in a home, office, hospital, school or emergency shelter
- USB ports and AC outlets for charging cell phones, tablets and other portable devices
- UPS feature ensures instant reliable and uninterrupted power, even during extended black-outs
- Utility drawer for storing accessories such as an extra power strip to increase PowerBank™ outlets
- Locking cabinets for security and heavy-duty lockable casters for safe and easy mobility

Specifications	PowerBank™5.4
Output	115 VAC modified sine wave, 15 Amps, 1,600 Watts
AC Input	100-120 VAC, 20 Amps
DC Input*	Maximum 1,000 Watts, 40 Amps @ 24 V
Battery	25.6 VDC nominal (20 to 28.8 Volts)*
Battery Units	(2x) PHI 2.7
Rated kWh Capacity**	5.4 kWh
Dimensions	Cabinet size: 36 H x 24 W x 18 D inches
Weight	215 lbs
Warranty Period	10 years

* Equivalent to 4 standard solar panels wired in parallel

**Average discharge capacity during a one-hour period

WHAT'S INCLUDED

CONTROLLER MODULE (IN DRAWER)	Controls 'on-off', inverter, charger and monitors state of charge
INVERTER/CHARGER	Changes DC battery electricity to 115 Volt AC output and recharges battery
AC INPUT/AC OUTPUT CIRCUIT BREAKERS	Protects against AC overloads and short circuits
DC CIRCUIT BREAKER ON-OFF SWITCH	Protects against DC overloads and short circuits
(2) PHI 2.7 KWH BATTERIES	Electronically controlled energy storage and management of DC current
AC OUTPUT	(2) 115 Volt GFCI sockets for powering devices rated up to 15 Amps
AC INPUT	115 Volt AC input for direct pass-through AC and for charging PHI 2.7 batteries (included)
(2) USB OUTLETS	For charging and operating cell phones, tablets, and other electronic devices
DC INPUT	For solar, wind or external DC charger

HOW THE POWERBANK™ WORKS

UPS Mode (Uninterruptible Power Supply)

- Plug a standard extension cord into the PowerBank™ “AC Input” and into a standard AC outlet (wall socket)
- Plug electronic devices and equipment into one of the PowerBank™ AC or USB DC power outlets
- Turn the PowerBank™ inverter “ON” using the Controller Module (refer to manual as needed)
- AC Power will now be available from the PowerBank™ AC outlet
 - The AC grid automatically charges the PowerBank™ whenever the batteries need recharging
 - During a grid failure, the PowerBank™ automatically switches to UPS mode enabling uninterrupted (continual) and reliable equipment operation

Remote AC Power

- Utilize the PowerBank™ wherever and whenever reliable uninterrupted power is needed
- Turn the PowerBank™ inverter “ON” using the Controller Module
- Plug electronic devices and equipment into the PowerBank™ AC or USB DC power outlets
- Power is now available to run your electronic devices and equipment for hours or days at a time

Recharge

- When battery power is low or whenever time permits, plug the PowerBank™ into the wall, generator or solar/wind charger to recharge. Charging can be done as frequently as desired without harm to the system or the PHI 2.7 batteries.

The power required to run equipment in everyday situations varies with the electrical device. Appliances such as microwaves, irons, toaster ovens, and hairdryers require high current for short periods of time. Appliances such as televisions, computers, fans, and refrigerators use low current for extended periods of time.

For example, if all of the following devices are used once a day, the total usage will be less than 1,500 watt hours.

Run Time Chart

Devices	Watts	Time (Minutes)	Usage (Wh)
Microwave	1,200	15	300
Electric Kettle	1,200	7	130
Hotplate	1,160	15	290
Toaster Oven	1,100	30	150
Television	65	120	130
Computer	50	180	150
Lamp	40	300	200
Fan	35	180	105
Radio	10	180	30
TOTAL			1,485



Read all instruction manuals before operating. For additional technical information contact Technical Support directly at (805) 640-1874.

Power Unplugged. Anytime. Anywhere.™