

Portable Lithium Solar Generator

Instruction Manual

MINOTAUR



Packing List

- 1 Pcs Portable Solar Power Generator
- 1 Pcs AC wall charger
(Including AC input charging cable)
- 1 Pcs PV solar charge cable (7909 to MC4)
- 1 Pcs User Manual
- 1 Pcs Warranty Card



Minotaur



AC Adapter



Solar Charging Cable
(MC4)



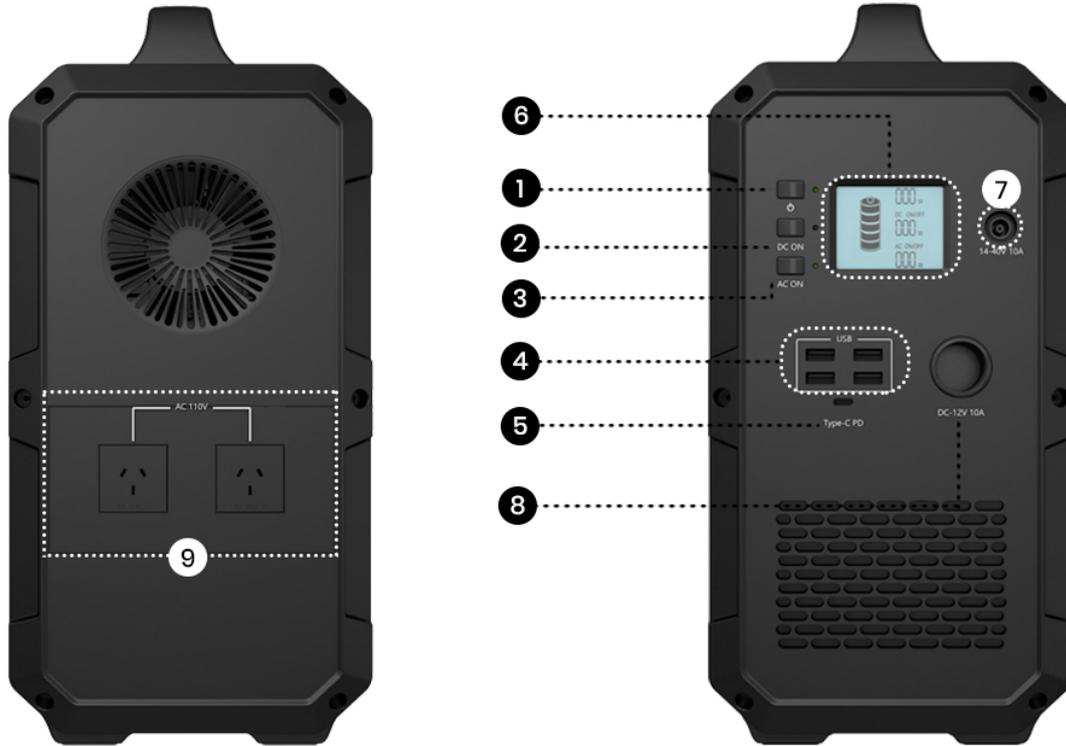
AC Charging
Cable



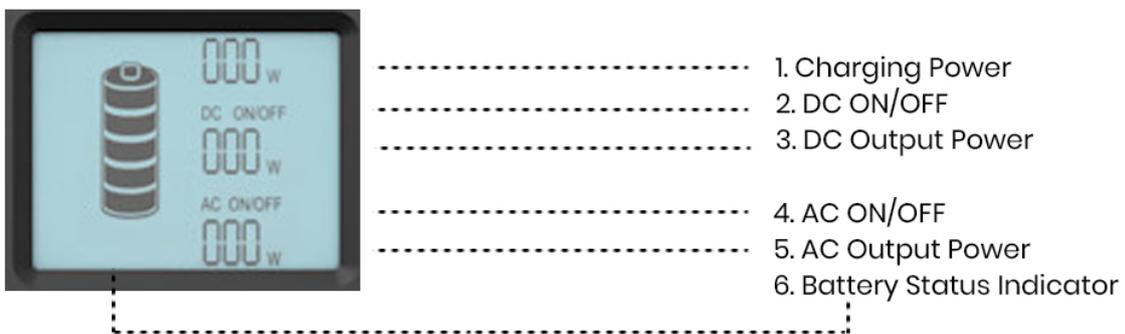
User Manual

Please visit our website www.srportables.com to register your product

Part Description



- 1. Master Power button
- 2. DC Power Button
- 3. AC Power Button
- 4. 5V USB Output Ports
- 5. Type-C PD Output port
- 6. Display Screen
- 7. AC Charger PV Input Port
- 8. 12V Cigarette Lighter Socket
- 9. AC 100-120V Outlet



- 1. Charging Power
- 2. DC ON/OFF
- 3. DC Output Power
- 4. AC ON/OFF
- 5. AC Output Power
- 6. Battery Status Indicator

Safety and Precautions

Safety Warning

1. Please read all the safety warnings and labels before using the product.
2. Avoid exposing the product to rain or using the product in a humid environment.
3. Do not install the product near heat sources, such as electric furnaces and heaters.
4. Wipe the product clean with a dry cloth.
5. In case of fire, use dry powder fire extinguishers for this product. Do not use water fire extinguisher, which may cause electric shock.
6. Please do not alter or disassemble this product.

Safety and Precautions

Storage and Maintenance

1. Operating and storage environment may influence product life and the reliability of performance. Remember to:
 - (i) Place the product in a dry and well-ventilated area with mild temperature (suitable temperature: 0°C -45°C, suitable relative humidity 10% ~ 90%)
 - (ii) Place the product in a safe area where it will not fall or shake.
 - (iii) Keep the product away from corrosive and combustible material.
2. The product will turn itself off when the battery voltage is very low. If this happens, you need to charge the battery within 2-3 months.
3. If you are not going to use it for a long time, please charge it fully before storage and then charge it at least once every month. Store the product in a dry environment.

How to Charge this Product?

Solar Panel to Charge the Product

1. Choose a suitable solar panel (recommended DC14~40V/120W).
2. Keep the solar panel under direct sunlight and facing the sun.
3. Connect the solar panel to the product at the AC port (Part 12 in the Part Description) using the MC4 cable.
4. Please charge the product under Operational Temperature: Charge 0°C ~ 45°C, Discharge -20°C ~ 60°C (powering appliances)
5. When the product is fully charged by the sun, it will stop charging automatically. (The charging time is different under different sunlight intensity)
6. All products can be charged and used simultaneously
7. During charging, it is normal for the product to get a little hot.
8. Please make sure the cable connections are secure and stable, or it might result in overheating and short circuits.



AC Charger to Charge the Product

1. Always use the standard AC charger that comes with the product.
2. Insert one end of the adapter into the wall outlet and insert the other end into the input port (Part 12 in the Part Description) of the product.
3. Please unplug the charger after charging is completed. (It takes about 5-6hrs to fully recharge the product if using a 90W AC adapter charger).
4. During charging, it is normal for the product to get a little hot.
5. Make sure that the wiring is connected properly, otherwise the contact terminals may melt or ignite at high temperatures.

Car Charger to Charge the Product

1. Connect the product to the cigarette lighter socket (Part 12 in the Part Description) in the car with the cigarette lighter cable provided in the package.
2. The product will be fully charged with a 24V car battery, but only partially charged with a 12V car battery.
3. Charge the product after starting the car.
4. Make sure that the wiring is connected properly, otherwise the contact terminals may melt or ignite at high temperatures.

Turn ON/OFF the Product

1. Turn on the product: Press and hold the master power button about 2 seconds to turn on the product. The LED indicator light and the display screen will light up.
2. Turn off the product: Press and hold the master power button about 2 seconds to turn off the product. The display screen and the LED indicator light would turn off.

AC/DC Output

1. Turn on AC/DC output: Press and hold the AC/DC power button to turn on the product. The corresponding LED indicator light would light up and the display screen would show "AC ON/DC ON".
2. Turn off AC/DC output: Press and hold the AC/DC power button to turn off the product. The LED indicator light would turn off and the display screen would show "AC OFF/ DC OFF".

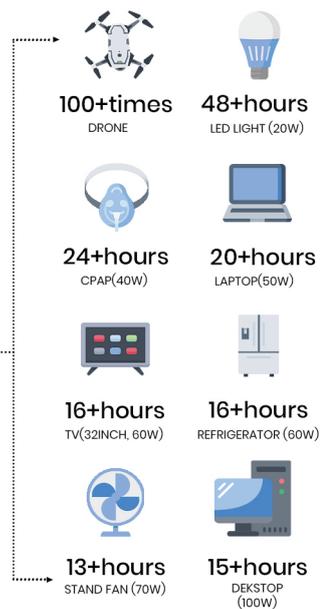
Note: Check to make sure the product is turned on. Otherwise, you cannot turn on the AC/ DC output.

Output

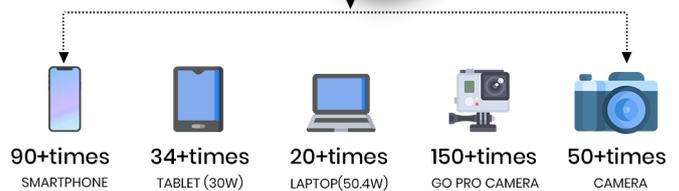
AC Port Output



AC Output Port



DC Port Output



Technical Specifications

Battery Capacity		1500Wh (US&JP)	1500Wh (ROW)
Output Specifications			
Inverter Output	Continuous Output Power	1000W	1000W
	Continuous Output Voltage	100 - 120Vac	220 - 240Vac
	Rated Frequency	50/60Hz	50Hz
	Power Factor	1	1
	THDV@0.7R (load)	< 5%	< 5%
	Overload protection	1000W ≤ Load < 1200W @2Min; 1200W ≤ Load @1s;	1000W ≤ Load < 1200W @2Min; 1200W ≤ Load @1s;
	Power Loss (No Load & Turned off)	< 20W	< 20W
	Max Efficiency (>70% Load)	88%	90%
12V/9A Cigar Lighter Output	Continuous Output Voltage	12.2V(±1V)	12.2V(±1V)
	Continuous Output Current	9A(±0.3A)	9A(±0.3A)
5V USB Output	Output Voltage Range	5V±0.3V	5V±0.3V
	Max Output Current	3A	3A
	Note: The maximum output of a single USB port is 3A. The maximum output of 2 USB ports is 3A (top and down).		
Type C PD Output	Supported Fast Charge	PD Protocol	PD Protocol
	Output Voltage Range	5-20V (5V by default)	5 20V (5V by default)
	Continuous Output Voltage/Current	(5V/9V/12V/15V)3A(±0.3A), 20V/2.25A(±0.2A)	(5V/9V/12V/15V)3A(±0.3A), 20V/2.25A(±0.2A)
Input Specification			
AC Adapter Charger		42V/160W	42V/160W
PV Max Input Power		500W	500W
PV Input Voltage Range		16 - 60Vdc	16 - 60Vdc
PV Max Input Current		10A	10A
MPTT Efficiency		99.5%	99.5%
Max Efficiency		>88%	>88%
Solar Charging Mode		MPPT	MPPT

Operating Conditions

1. Operational Environment: Indoor and Outdoor (non waterproof)
2. Operational Temperature: Charge 0°C ~ 45°C, Discharge -20°C ~ 60°C (powering appliances)
3. Storage: -20°C ~ 45°C