



MODEL

**SL1404**

**Portable Power Generator**

**OWNERS MANUAL**



**PLEASE SAVE THIS OWNERS MANUAL AND READ BEFORE EACH USE.** This manual will explain how to use the unit safely and effectively. Please read and follow these instructions and precautions carefully.

## 1. IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS.

- 1.1 SAVE THESE INSTRUCTIONS –** This manual contains important safety and operating instructions.
- 1.2** This product is not intended for use by children.
- 1.3** If someone else uses the unit, ensure they are well informed on how to use it safely, and have read and understood the operating instructions.
- 1.4** Do not use near flammable fumes or gases, such as in the bilge of a gasoline-powered boat or near propane tanks.
- 1.5** Do not use in an enclosure containing automotive-type lead-acid batteries.
- 1.6** Do not expose the unit to temperatures over 113 °F (45 °C).
- 1.7** Do not operate the unit with damaged cord or plug – replace the cord or plug immediately.
- 1.8** Do not recharge the unit with a damaged extension cord.
- 1.9** Do not operate the unit if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified service person.
- 1.10** Do not disassemble the unit. If repair is required, contact Customer Service for assistance.
- 1.11** To reduce risk of electric shock, unplug the unit from the outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
- 1.12** The unit gets uncomfortably warm during use and must have proper ventilation. Ensure at least 3 in. (7.5 cm) air space is maintained on all sides of the unit.
- 1.13** Do not set the unit on flammable materials, such as carpeting, upholstery, paper, cardboard, etc. During operation, keep unit away from materials that can be affected by high temperatures, such as blankets, pillows and sleeping bags.

## 2. PERSONAL SAFETY PRECAUTIONS

### **WARNING!** **RESTRICTIONS ON USE.**

- 2.1** This unit may not be used with life support devices or systems. Failure of this device can reasonably be expected to cause failure of that life support device or system, or to affect the safety or effectiveness of that device or system.
- 2.2** When working on electrical equipment, always ensure someone is nearby to aid you in case of an emergency.

## 3. ASSEMBLY INSTRUCTIONS

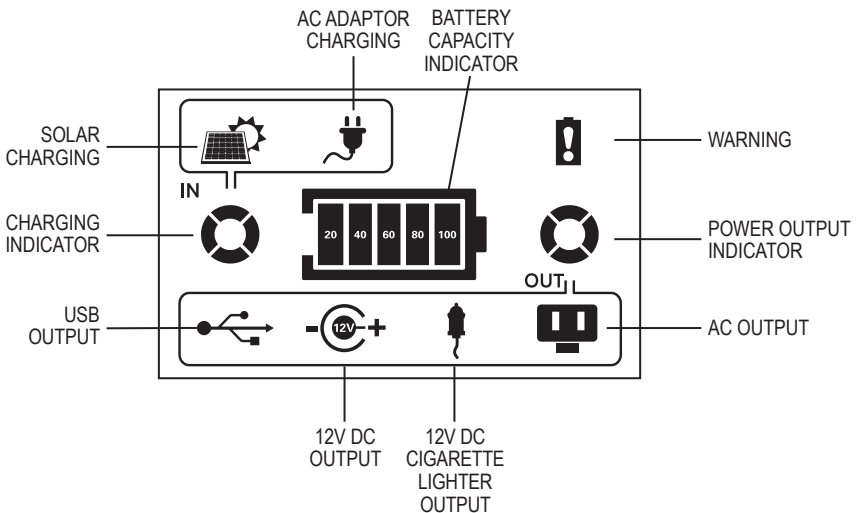
- 3.1** Remove all cord wraps and uncoil the cables prior to using the unit.

## 4. FEATURES



- |                                |   |
|--------------------------------|---|
| 1. 110V AC power outlets (2)   | 10. 12V DC cigarette lighter output only port |
| 2. 1A USB port                 | 11. AC output button                          |
| 3. 2A USB port                 | 12. AC output LED indicator                   |
| 4. 2.4A USB port               | 13. Handle                                    |
| 5. AC adaptor input socket     | 14. Light button                              |
| 6. ON/OFF power switch         | 15. Light                                     |
| 7. LCD display                 | 16. Cooling vents                             |
| 8. Solar charging input socket |   |
| 9. 12V DC output ports         |   |

## 5. LCD SCREEN



## 6. OPERATING INSTRUCTIONS

**IMPORTANT!** Charge immediately after purchase and when battery level is below 40%, to keep the internal battery fully charged and prolong battery life. Do not recharge unit for more than 12 hours.

### POWERING ON

Press the ON/OFF power switch. The unit will initialize, and all icons on the LCD screen will activate. If normal function is detected, the screen will return to its normal display.




### CHECKING THE LEVEL OF THE INTERNAL BATTERY

The Battery Capacity Indicator on the LCD display will show the battery's charge level in 20-percent increments. For best performance, the battery capacity should be 20% or greater.


### CHARGING THE INTERNAL BATTERY

**NOTE:** Do not use the unit while charging its internal battery.

#### AC adaptor

1. If the red AC Output LED is lit, press the AC Output button to turn off before charging.
2. Connect the provided AC charger to the socket on the front of the unit. Plug the charger's power cord directly into a live grounded 120V outlet. Charging will start automatically, and the  AC Adaptor Charging icon will show on the display.
3. While the unit is charging, the rotating  Charging indicator will show on the display. When the internal battery is fully charged, all five bars of the Battery Capacity  indicator on the display will show. Complete charging will take approximately 5 hours.
4. When the unit is fully charged, unplug the charger from the 120V outlet and then from the unit.



#### Solar Charging

Solar charging can be accomplished by plugging in a 30-36V solar panel (not included) into the Solar Charging Input port. The  Solar Charging icon will show on the display. For best results, face the panel toward the sun, away from curtains and windows. Charging by solar panel takes approximately 10 hours (on a sunny day).



### POWERING A 12V DC DEVICE

**NOTE:** Do not power a 12V device while charging the internal battery.

#### 12V DC Output



1. Make sure the device to be powered is OFF before inserting the 12V DC plug into one of the two 12V DC output ports.
2. Plug the 12V DC device into one of the 12V DC output ports and turn on the 12V DC device (if required). The  12V DC output icon and the rotating  Discharging indicator will show on the display.
3. When finished, turn off the DC device (if required) and unplug from the DC output port.
4. Recharge the unit when the battery level is below 40%.

#### 12V DC Cigarette lighter plug

1. Make sure the device to be powered is OFF before inserting the 12V DC cigarette lighter plug into the 12V DC cigarette lighter socket.
2. Plug the 12V DC device into the DC cigarette lighter socket and turn on the 12V DC device (if required). The  Cigarette Lighter Output icon and the rotating  Discharging indicator will show on the display.
3. When finished, turn off the DC device (if required) and unplug from the DC Cigarette Lighter socket.
4. Recharge the unit when the battery level is below 40%.

### USING THE USB PORTS

The USB ports provide 1A, 2A and 2.4A at 5V DC.

1. Plug the device into one of the three USB ports on the front panel.
2. Turn on the USB device, if necessary. The  USB Output icon and the rotating  Discharging indicator will show on the display.
3. When finished, turn off the USB device (if required) and unplug from the USB port.
4. Recharge the unit when the battery level is below 40%.

## USING THE LIGHT

There are 5 lighting modes:

- High (100% power)
- Normal (50% power)
- Energy saving (25% power)
- Emergency flash
- SOS

Press once to turn the light ON or OFF. Press twice quickly, to change to the next mode.

## USING THE AC POWER OUTLETS


The SL1404 is equipped with a 500W pure sine wave inverter, which produces the best power for all electronic devices and appliances, without damage.

It is important to know the continuous wattage of the device you plan to use with the AC outlets. The unit must be used with devices drawing 500 watts or less.

Devices such as fans or electric motors require additional power to start (commonly known as the “starting” or “peak” power). The generator can supply a momentary surge in wattage of as high as 2,500W for less than 1/10 of a second; however even devices rated less than the maximum 500 watts can exceed the inverter’s surge capability and cause an automatic overload shutdown.

Do not use the inverter with a product that draws a higher wattage than the inverter can provide, as this may cause erratic operation.

**CAUTION:** Always run a test to establish whether the inverter will operate a particular piece of equipment or device.

In the event of a power overload (noted with an audible alarm beeping every 3 seconds and a flashing  Warning icon), the inverter is designed to automatically shut down. This safety feature prevents damaging the inverter while testing devices and equipment within the 500-watt range. If powering more than one device, start one device at a time to avoid a power surge and/or inverter overload. The surge load of each device should not exceed the inverter’s Continuous Operation wattage rate.

You can use an extension cord from the inverter to the device without significantly decreasing the power being generated by the inverter. For best operating results, the extension cord should be 16 AWG (1.31 mm<sup>2</sup>) or larger and no longer than 50 feet.

## WARNING! RISK OF ELECTRIC SHOCK.

Incorrect operation of your inverter may result in damage and personal injury. The inverter output is 110V AC and can shock or electrocute the same as any ordinary household AC wall outlet.

**NOTE:** The maximum continuous load is 500 watts. Do not use the AC outlets with a product that draws more than 500 watts, as this may cause erratic operation.



## CAUTION:

- Do not connect an AC power source to the 110V AC outlets.
- Do not connect the unit’s AC power cord to its 110V AC outlets.

**NOTE:** Do not power an AC device while charging the internal battery.

1. Connect your AC-powered devices or small household appliances to one or more of the unit’s two AC outlets.

**NOTE:** Make sure the device to be powered is OFF before inserting the plug into the AC power outlet.

2. Press the AC Output button. The  AC Output icon will show on the display and the green AC power LED lights, to confirm that the unit is on and ready to provide AC power. The rotating  Discharging indicator will also show on the display.

**NOTE:** Extended operation of an AC device may result in excessive battery drain.

3. Recharge the unit when the battery level is below 40%.

## ESTIMATED RUN-TIMES

APPLIANCE TYPE	ESTIMATED RUN TIME	CHARGES
Projector	8 hours	—
12V Heated blanket	15 hours	—
12V Cooler	17 hours	—
Mini refrigerator	23 hours	—
Drone	24 hours	145
Television	24 hours	—
Fan	29 hours	—
Router	60 hours	—
Table lamp	65 hours	—
Laptop	117 hours	17
LED lights	167 hours	—
Go Pro	210 hours	140
Radio	245 hours	—
Tablet	273 hours	22
Speaker	750 hours	63
Smartphone	843 hours	70




**NOTE:** Actual time may vary. Times are based on the internal battery being fully charged.

## 7. MAINTENANCE AND CARE

7.1 Recharge the unit when the battery level is below 40%.

7.2 Never completely discharge the internal battery.

## 8. WARNINGS

WARNING		LCD DISPLAY	TIME	CAUSE
Alarm	LED			
3 short beeps every 2 seconds, lasting 30 seconds	AC LED blinking	 Low battery icon flashes for 30 seconds.	30 sec. before AC OFF	Economy mode. Pre-alert for AC OFF.
3 short beeps every 2 seconds, lasting 30 seconds	N/A	 Low battery icon flashes until battery is charged above 10%.	30 sec. before DC OFF	Low battery capacity mode. Pre-alert for DC OFF.
Every 1 second	N/A	 Warning icon flashes until fault is removed.		Charging fault.
Every 2 seconds	N/A		DC output fault	
Every 3 seconds	N/A		AC output fault	
Every 4 seconds	N/A		Over temperature	
3 short beeps every 3 seconds.	N/A		Overload	

## 9. TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Power-up failure	Under-voltage protection	Recharge unit.
	Abnormal load protection	Remove loads and recharge unit.
	Damaged unit	Contact customer service.
Charger fault	Unmatched charger	Use only the included charger.
	Damaged charger	Contact customer service for replacement.
	Abnormal power supply or connection	Reconnect the charger. If problem persists, replace the charger.
Solar panel charging fault	Over-current	Use only the recommended solar panel.
	Weak sunlight	Charge in a sunny place.
	Damaged solar panel	Replace the solar panel.
	Abnormal wiring-harness connection	Reconnect the wiring-harness. If problem persists, replace the solar panel.
DC/AC output fault	Battery under-voltage protection	Charge the unit.
	Discharge over-current protection	Make sure loads are within allowed range (total ≤500W).
	Over-temperature protection	Turn unit off, allow to cool down and then restart.
	Damaged unit	Contact customer service.

PROBLEM	CAUSE	SOLUTION
Abnormal icon display	Abnormal loads	Remove loads.
	Hardware fault	Contact customer service.
	Damaged LCD screen	Contact customer service.
LCD screen fault	Damaged LCD screen	Contact customer service.

## 10. SPECIFICATIONS

Internal battery type .....	Lithium-Ion
Capacity .....	750 Wh (25V, 30 Ah)
AC input .....	147W/29.4V, 5A
Solar input.....	30-36V (Max. power up to 200W)
AC output.....	2 x 110V/60 Hz
DC output.....	2 x 12V DC, 2.5A
Cigarette lighter output.....	1 x 12V DC, 5A
USB output.....	.5V DC, 1A, 2A, 2.4A
Light .....	1W
Operating Temperature .....	14°–113°F (-10 °– 45 °C)
Storage Temperature .....	32°–113°F (0 °– 45 °C)
Dimensions (H x W x D).....	13.7" x 6.3" x 11.2" (349 mm x 6.3 mm x 285 mm)
Weight.....	16.7 lbs. (7.6 kg)

## 12. REPLACEMENT PARTS

AC charger module .....	93026980Z
AC charger cable .....	3899003972Z