

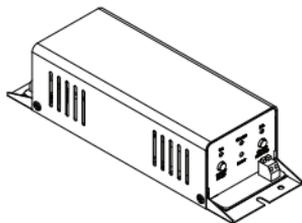


**SUNNY**  
LIGHT FOR LIFE

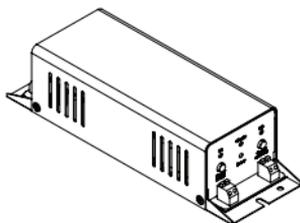
# USER MANUAL

## Emergency Power Packs

Model: EP-LS1, EP-LS2, EP-LS3



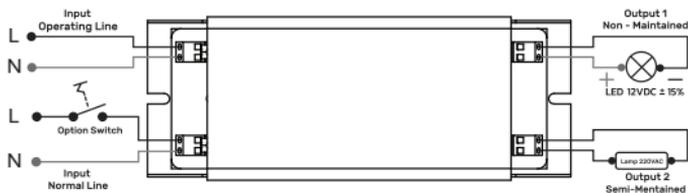
Model: EP-HS1, EP-HS2, EP-HS3



### Installation and Operation

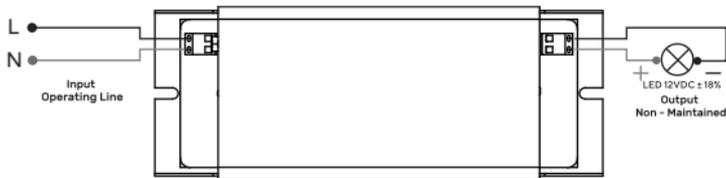
Connect the unit's INPUT electrical cable to the mains power supply of the building. Press the ON switch on the unit. The green LED should blink once to indicate that the unit is operational. Securely install the unit to prevent any accidents that could result in injury or damage. The unit will start operating the first time it receives a 230VAC/50 power supply (AC Start). The orange AC LED should turn on to indicate that the unit is receiving an AC power supply. The green ON LED will be on to indicate that the unit is operational. When there is a power outage the unit should start operating automatically. Once power has returned, the unit will continue to provide power from its battery for another 3-5 seconds before turning off. The EP-HS1, EP-HS2, EP-HS3 model also comes with a built-in Transfer Relay that can be connected to a 230VAC control switch at a desired location.

### Wiring Diagram for EP-HS1, EP-HS2, EP-HS3

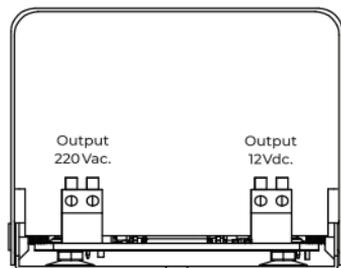
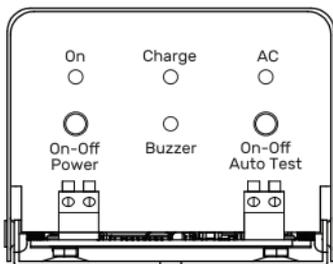


Warning : For best operation do not connect the unit to a 230V bulb using ballast resistor.

### Wiring Diagram for EP-LS1, EP-LS2, EP-LS3



## Indicators



## Automatic Battery Test

The battery test is performed to help extend the operational lifetime of the battery, it will also test that the unit is in good condition and ready for operation. If the test finds that the battery can supply the unit with power for less than a designated amount of time, the red Charge LED will blink red 3 times every 2 seconds to indicate a Battery Testing Fault.

Indication Lights	Display	Meaning
<b>On</b> 	<ul style="list-style-type: none"> <li>- A continuous green light</li> <li>- The green light turns off</li> </ul>	<ul style="list-style-type: none"> <li>- The unit is turned on and operational</li> <li>- The unit is not turned on</li> </ul>
<b>AC</b> 	<ul style="list-style-type: none"> <li>- A continuous orange light</li> <li>- The orange light turns off</li> <li>-Blinking orange light</li> </ul>	<ul style="list-style-type: none"> <li>- The unit is receiving a normal AC power supply</li> <li>- The unit is receiving an AC power supply of less than 150VAC</li> <li>- When the automatic battery testing function is activated</li> </ul>
<b>Charge</b> 	<ul style="list-style-type: none"> <li>- A continuous red light</li> <li>- A continuous green light</li> <li>- A red light blinks once every 2 seconds</li> <li>- A red light blinks three times every 2 seconds</li> <li>- A red light blinks four times every 2 seconds</li> </ul>	<ul style="list-style-type: none"> <li>- The battery is charging</li> <li>- The battery is fully charged.</li> <li>- The Low Voltage Indicator is warning that the battery's charge is about to fall below the Voltage Cut-Off point.</li> <li>- The Battery Testing Fault is indicating that the battery can only hold less than 30 minutes of charge</li> <li>- The Battery Charging Fault is indicating that the battery is still not fully charged even after 10-15 hours of charging</li> </ul>

## Important Note on Using the Unit

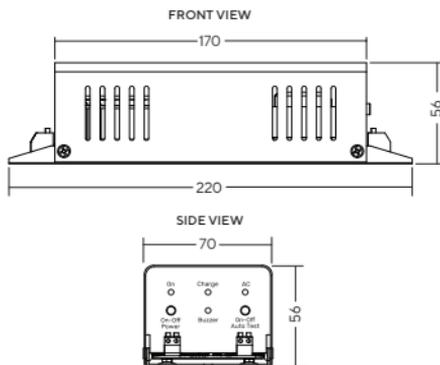
1. The unit should be installed indoors away from direct sunlight and rain or moisture.
2. Always press the "ON" switch every time after installation to turn on the unit.
3. When the unit is not in use always turn it off by pressing the "OFF" switch.
4. The unit should be stored in temperatures under 25 Degree Celsius and the battery should be charged every 3 months to maintain its operational life.
5. Please always read the manual carefully prior to operating the unit for the safest and most effective use of the product.

## Initial Trouble Shooting

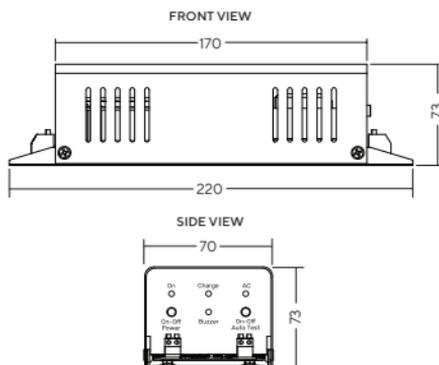
Problem	Cause	
- Power not getting to the unit after plugging in. The LED AC light does not turn on.	<ul style="list-style-type: none"> <li>- The power socket might not have any power.</li> <li>- The plug or socket is loose.</li> <li>- The AC.230V fuse is blown.</li> </ul>	<ul style="list-style-type: none"> <li>- Check the 230VAC power supply.</li> <li>- Check the plug and socket.</li> <li>- Contact customer service.</li> </ul>
- Emergency light does not turn on after the power went out.	<ul style="list-style-type: none"> <li>- The ON switch was not pressed</li> <li>- The lamp is faulty</li> <li>- The circuit's wiring is loose.</li> <li>- The DC fuse is blown</li> </ul>	<ul style="list-style-type: none"> <li>- Press the ON switch</li> <li>- Contact customer service.</li> <li>- Check the unit's circuit connections</li> <li>- Contact customer service.</li> </ul>
- Emergency light only turns on for a short time after the power went out.	<ul style="list-style-type: none"> <li>- The battery is not fully charged.</li> <li>- The battery is past its operational lifetime or has deteriorated</li> </ul>	<ul style="list-style-type: none"> <li>- Plug the unit in to charge the battery for about 10 - 15 hours.</li> <li>- Contact customer service to replace the battery</li> </ul>

## Dimension (mm)

Model: EP-HS1, EP-LS1



Model: EP-LS2, EP-LS3, EP-HS2, EP-HS3



## Terms for Warranty and Service

1. The product will only be under warranty if the customer fills in the “warranty card” and return the “return part” to the company within 7 days of purchasing the product. If this is not done within the specified time then the warranty will be considered void.
2. The warranty only covers the unit’s internal parts for the duration specified by the company counting from the date of purchase.
3. Please show the warranty card every time when contacting our service department or the dealer you purchased the unit from.
4. The warranty will be considered void in the following cases.
  - The unit has been used outside of its intended use specified in the manual.
  - The unit has been used with equipment that does not meet the specifications specified within the manual.
  - The unit has been damaged from impact, for example parts are dented, scratched missing or distorted.
  - The unit has been modified or repaired by people not officially certified by our company.
  - The Sticker Warranty Void has been removed or torn.
  - The unit is damaged from negligence or incompetent use, for example, the battery is swollen, the batter has been overcharged, the battery has been damaged from quick charging, the battery has been short-circuited, the battery’s charged has been completely drained.
  - The unit has been stored improperly, for example, it was exposed to moisture causing rust and damage to the internal circuitry.
  - Damaged was caused by a malfunction in the AC power supply.
  - Damage from natural disaster such as fire, moisture, submersion in liquids, chemical damage or from unavoidable circumstances.
  - Damage from animals or insects.

**Note :** Please read the manual carefully before installation and operation to understand how to properly operate the unit.

For any further questions about your product please feel free to contact SUNNY’s customer service department.  
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**E-mail: [service@sunnyemergencylight.com](mailto:service@sunnyemergencylight.com)**

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