Emergency Power Pack With Transfer Relay | EP-H Series 1

Model : EP-HS1

Product Overview

The EP-HS1 emergency power pack with transfer relay is compactly designed, perfect for hidden installations in the ceiling to provide power for emergency lights installed in or under the ceiling. The EP-HS1 power pack is special in that it can supplyeither a 12 Vdc or 220 Vac power supply. A switch to turn on or off the power pack can be installed at any desired location and it is also equipped with the innovative 3 Steps Charger (patent number 15955) to help extend the operational life of the battery.

The casing is produced from 1mm thick Electro-Galvanized steel coated with Epoxy powder and special chemicals to prevent any possible rust.

The EP-HS1 emergency power pack with transfer relay has undergone continued innovation to give maximum value and functions to the users, as can be seen in the feature list.

Technical Specifications

Mode of Operation	Semi - Maintained
Input Voltage	Operating Line 220 VAC / 50Hz ± 10% Normal Line 220 VAC / 50Hz ± 10%
Battery Type / Capacity	Lithium-ion battery 11.1V-5Ah
Standby power	2 Wattage
Output Voltage	- Output 1 Load 12Vdc. (Non - Maintained) - Output 2 Load 220Vac. (Semi - Maintained)
Backup Time	Total Load 15W@PF=1.0 (2Hrs.)
Total Maximum Load	36W
Charging period	10-15 Hrs
Housing	Electro-galvanized steel sheet 1mm thick with epoxy powder coating
Dimensions (LxWxH)	220 x 70 x 56 mm
Weight	0.97 Kg
IP Rating	20

Features

Supported Load

- Output 1 supports a 12 Vdc load for emergency lamps
- Output 2 supports a 220 Vac load for emergency lamps

Battery

- Lithium-ion 11.1V -5Ah

Power Supply Duration

- It can supply a 9 Watt load for 3 hours, a 15 Watt load for 2 hours @PF=1

Functions

- An automatic 30-minute test can be set to perform every 30 days. This automatic testing can be turned on or off

Circuit Sytems

- Controlled by an 8 bit microcontroller circuit
- An Autoactivation circuit when under voltage occurs
- A Timer Delay circuit to keep the unit operating for a few more seconds once normal power has returned

Protection Features

- AC and DC fuse to prevent current overload
- Surge Protection

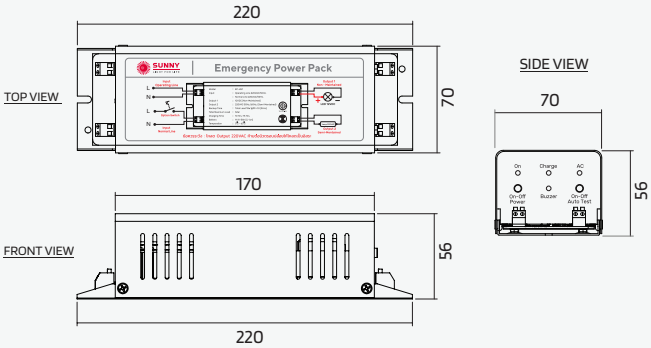
Features to Extend Battery Life

- An innovative 3 Steps Charger (Limit Current, Constant Voltage, Flip-Flop Charger)
- A Low Voltage Cut-Off to prevent the battery from draining completely

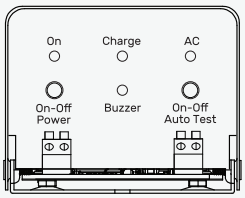
Warning Systems

- An audible alarm will sound once every 15 seconds to warn that the Low Voltage Cut-Off is about to activate
- An audible alarm will sound twice every 15 seconds to indicate that the battery should be charged
- An LED will blink 3 times every 15 seconds to warn that there is less than 30 minutes of charge left in the battery. This warning will show for 10 minutes
- An LED will blink 4 times every 15 seconds to warn that there is a problem charging the battery

Dimensions (mm)

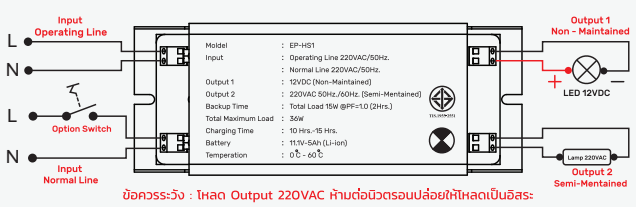


Indicators



LED	On	▶ Indicate that the unit is operational
LED	Charge	▶ Indicate that the battery is being charged
LED	AC.	▶ Indicate that the unit is receiving a power supply
Switch	On-Off Power	▶ Used to turn the unit on or off
	Buzzer	▶ Sound Indicator
Switch	On-Off Auto Test	▶ Used to turn the auto-test on or off

Wiring Diagram



Warning : For best operation do not connect the unit to a 220V bulb using ballast resistor.