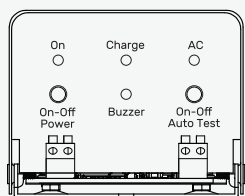




### Technical Specifications

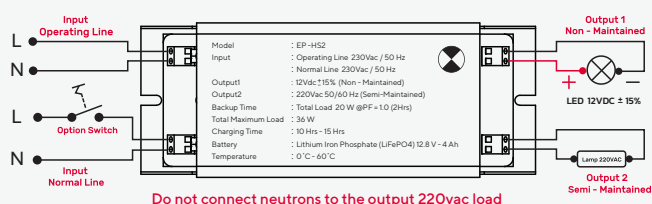
Mode of Operation	Non - Maintained / Semi - Maintained			
Operation Temperature	0-40°C			
Input Voltage	Operating Line 230VAC / 50Hz Normal Line 230VAC / 50Hz			
Battery Type / Capacity	Lithium Iron Phosphate (LiFePO4) 12.8V - 4Ah			
Protection Features	- AC, DC Fuse - Surge Protection			
Testing System	Auto Test			
Output Voltage	- Output 1 Load 12VDC ± 15% (Non - Maintained) - Output 2 Load 220VAC (Semi - Maintained)			
Backup Time	Output 12VDC ± 15%		Output 220VAC	
	Load 10W	4 hrs 30 mins	Load 10W	3 hrs 45 mins
	Load 15W	3 hrs 10 mins	Load 15W	3 hrs
	Load 20W	2 hrs 15 mins	Load 20W	2 hrs
	Load 25W	2 hrs	Load 25W	1 hr 45 mins
	Load 30W	1 hr 30 mins	Load 30W	1 hr 20 mins
	Load 36W	1 hr 15 mins	Load 36W	1 hr
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 73 mm			
Weight	1.30 Kg			
Degree of Protection	IP20			
Mounting	Ceiling Concealed			

### 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 magnetic ballast.

### Product Overview

The EP-HS2 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-HS2 power pack is special in that it can supply either 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-HS2 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.

### Features

#### Supported Load

- Output 1 supports a 12 VDC  $\pm 15\%$  load for emergency lamps
- Output 2 supports a 220 VAC load for emergency lamps

#### Battery

- Lithium Iron Phosphate (LiFePO4) 12.8V - 4Ah

#### Power Supply Duration

- Output 12VDC  $\pm 15\%$  (Non - Maintained)

Load (Watt)	10	15	20	25	30	36
Backup time (hours/Minutes)	4.30	3.10	2.15	2.00	1.30	1.15

- Output 220VAC (Semi - Maintained)

Load (Watt)	10	15	20	25	30	36
Backup time (hours/Minutes)	3.45	3.00	2.00	1.45	1.20	1.00

#### Functions

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

#### Circuit Systems

- 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. This warning will show for 10 minutes

### Dimensions (mm)

