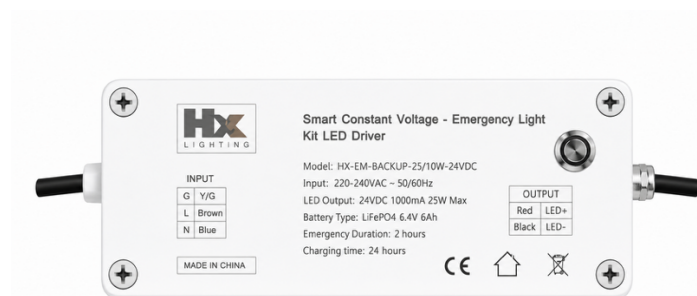


HX- Emergency Lighting Backup Controller

HX-EM-BACKUP-25/10W-24VDC

HX-25W-10-24V is an emergency LED driver with integrated battery backup suitable for running short lengths of LED lights rope lights for a minimum of 120 minutes during power failure. HX-25W-10-24V provides a constant current output ensuring consistent lighting in the event of power failure, ensuring the lights do not dim below their emergency state, or drain the battery quicker than expected. Lithium battery technology ensures long battery life, small enclosure footprint and is an IP65 rated sealed enclosure (a limitation for Lead Acid technologies). HX-25W-10-24V has self-test functions to ensure the controller is operating as required.



Features

- Constant Voltage & Constant Current Regulation (Backup mode)
- Supply Voltage 200-240Vac
- Minimum 120 minutes backup power
- Advanced Battery Management System (BMS)
- Self-Test Function
- 3 Year warranty

SPECIFICATIONS

Input	Input Voltage	200-240Vac
	Input Frequency	50/60Hz
	Input Current	0.5Amax@220Vac & Full-Load
	Input Under Voltage	Shut down and auto-restart
	Surge Protection	Line to line 1kV, line to ground 2kV,

Output	Voltage	24VDC
	Current	1000mA / 450mA (Emergency)
	Power	25W (Mains Power) / 10W (Emergency Battery)
	THD	10%Vo max

Protection	Battery Over Voltage	
	Battery Under Voltage	
	Battery Hot Plug at Normal Mode	
	Battery Hot Plug at Emergency Mode	
	Output Open Protection	
	Output Short Protection	
Battery	Type	LiFePO4, 6.4V 6Ah
	Charge Current	300mA
	Recharge Time	24 Hours
Environment	Operating Temperature	-0°C/32F~+55°C/131F ; 10%RH~100%RH

Physical Attributes	Dimensions	250mm x 80mm x 70mm 9 13/16 in x 3 1/8 in x 2 3/4 in
	Weight	900 grams 2 lbs

Indicator status lights

The charge indicator, located around the ring of the “TEST” button will FLASH GREEN when charging.

Once the unit is fully charged and ready for emergency mode it will turn to SOLID GREEN.

In the case of an error, the unit will FLASH RED (See table below for error codes).

Indicator Light Mode	
SOLID GREEN	Normal Mode
	Self-Test
	Maintenance Charging
FLASHING GREEN	Charging
OFF	Emergency Mode
1 RED FLASH	Battery Pack Failure
	Emergency Light Failure
	Diagnostic Failure

Test Switch Operation:

Press test button for 1 second to enter EM mode for testing during normal AC power. To return, press the button again.

Press and hold for 10 seconds to disable emergency mode and disconnect battery (for transport purposes). Mode will return when power is reconnected.

High Level block diagram:

