

300146 - Manual

Please read these instructions before installation and retain for further reference.

THIS PRODUCT MUST BE CHARGED FOR 24 HOURS CONTINUOUSLY PRIOR TO INSTALLATION. FAILURE TO DO SO WILL RESULT IN YOUR PRODUCT WARRANTY BEING VOID.

Universal LED Emergency Pack 45W

General Specification

Part Number	300146
Rated supply voltage	220VAC-240VAC
Mains frequency	50/60Hz
Ambient temperature t_a	0°C-45°C
Max. Casing temperature t_c	75°C

Description

The emergency converter 300146 is a universal design for use with most LED fixtures that works with constant current drivers. It is an emergency battery pack that uses electronic circuitry to convert energy stored in a battery into DC voltage and the current necessary to drive the LED load.

This unit can be installed as a maintained or non-maintained unit and it allows the same LED fixture to be used for both normal and emergency operation. In the event of a power failure or when the AC current is less than 65% of rated voltage, it switches to emergency mode and operates the LED fixture for 180 minutes. When in emergency mode, the unit will operate a 2.5W or 5W LED load with constant power with a rated output voltage of 15V-60V. The emergency power can be adjusted by dial switch. The unit has a discharge protection circuit, over load, short circuit and battery low voltage protection.

Each unit includes the battery pack, LED charge indicator, a test switch and the emergency power module.

Battery Discharge & Charge Specification

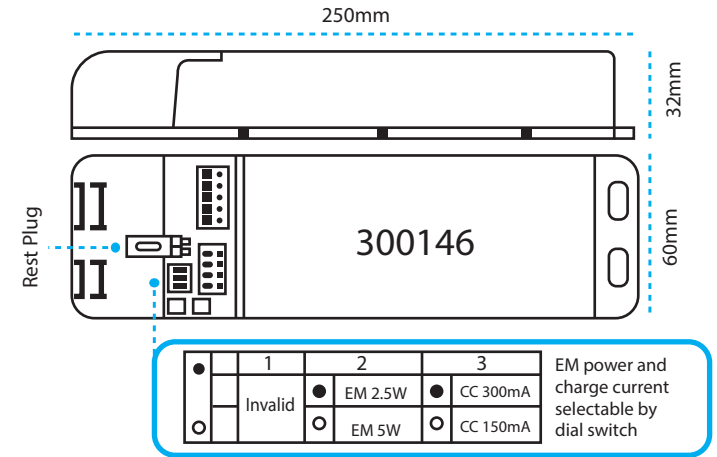
Parameter	Min.	Max.	Note		
Battery discharge current	785mA	795mA	• When #2 dial switch been selected to "EM 5W" • Measured at 6.4V input from batteries		
Output Voltage	15Vdc	60Vdc			
Output Constant Current	66mA	270mA			
Emergency Power	4.8W	5.2W			
Parameter	Min.	Max.	Note		
Battery discharge current	395mA	399mA	• When #2 dial switch been selected to "EM 2.5W" • Measured at 6.4V input from batteries		
Output Voltage	15Vdc	60Vdc			
Output Constant Current	33mA	135mA			
Emergency Power	2.4W	2.6W			
Item Code	Batteries	Emergency Power	Emergency Duration	Charge Current	Charge Time
300146-2.5W	6.4V/1500mAh LiFePO4 battery	2.5W±5%	3h	150mA±10%	24h
		5W±5%	1.5h		
300146-5W	6.4V/3000mAh LiFePO4 battery	5W±5%	3h	300mA±10%	24h

Note: All specifications are typical at 25°C unless otherwise stated.

Important information for the installation

- The unit uses a mains voltage (220-240Vac, the converter will be in emergency mode when the mains voltage is less than 65% of rated voltage), it should be installed by a suitably qualified person, usually an electrician, according to the European safety standards or relevant nation regulations.
 - The emergency converter can only be used with LED fixtures and is only suitable for use indoors.
 - Protect the electronics converter against excessive heat.
 - Connect the LED fixtures to the emergency converter with correct polarity according to the schematic drawing.
 - The maximum length of the output cable to the LED fixtures should not exceed 3m according to the EMC standard.
 - Connect the unit to AC power **ONLY** after the wiring has been completed between the emergency converter and LED fixtures.
 - Any broken or damaged parts should be replaced as soon as possible.
- Innoled will not accept responsibility for any claims arising from a improper installation.
- Reset plug: Remove the plug, then insert the plug again, the system will be reset, and the LED fixtures will be no longer in emergency mode.

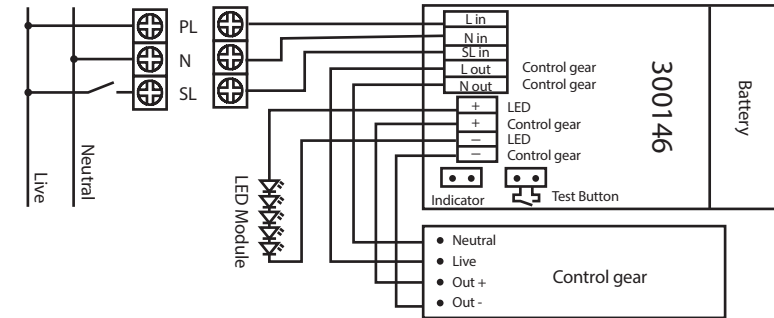
Mechanical Outline



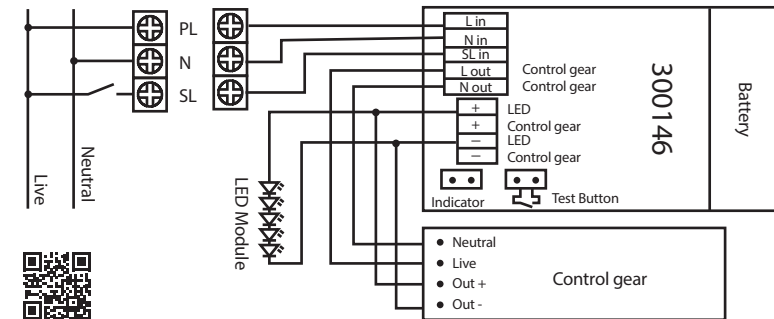
Note: The reset plug needs to be always inserted during operation to reset the system. (1) Remove the plug on emergency mode (2) Insert the plug again, the system can be reset.

Wiring Diagram

1. The output current of LED driver is under 1.5A.



2. The output current of LED driver is over 1.5A.



InnoLED-3-Hr-Emergency-Backup-Kit-Manual-Rev06