Installation & Wiring Instructions

NLP/1 Emergency Conversion Kit



PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Description:

The Liteplan range of NLP/1 modules are designed to convert a wide range of LED types with one main version. The NLP/1 is the popular choice for converting most standard LED luminaires and arrays from 6 to 55 Volts.

The module is designed to be installed into the low voltage connection between the mains LED Driver and the LEDs and allows the LEDs to be operated as normal under mains healthy conditions and operated at reduced light output in an emergency.

The modules automatically adjusts the output LED current to provide the best match between the battery and the load,

providing

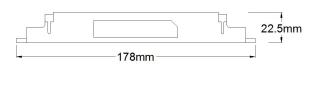
maximum illumination whilst ensuring full battery duration and are compatible with a wide range of lighting.

The unit will recharge the batteries after the test of clause 22.3 of BS EN 61347-2-7:2012.

The battery is fitted with a PCM to protect the supply voltage against reverse polarity.

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz							
Power Rating (charging)	2.7W - 17mA - λ = 0.67							
Insulation between supply & battery	Double Reinforced							
Duration	3-hours							
Ambient Temp. Ta	0°C to + 50°C							
Max Case Temp. Tc	70°C							
Max Battery Temperature	55°C							
Recharge Period	24-Hours							
Battery Type	3.2V 3.8Ah LiFePO4							
Charge Current	225mA nominal							
Discharge Current	900mA nominal							
Charge Voltage Limit	4.0 Volts							
Discharge Voltage Limit	2.4 Volts							
Ingress Protection	IP20							
Cable Entry Size	0.5mm - 1.5mm							
Module Size (L x W x H)	178mm x 30mm x 22.5mm							
Module Fixing Centers	172mm							
Module Weight	0.085Kg							
Battery Details (mm)								
Stick 90mm x 28mm diameter FC = 80mm								
Remote 94mm x 34.5mm Diameter								
Battery Weight	0.11Kg							





Fixing Centres 172mm

NLP/1

Prated - 2.2W Irated - 323 - 40mA Voltage Range 6 - 55 Volts Open Circuit Voltage (U-OUT) = 60 Volts

Warning

Avoid running the LED mains driver and emergency pack without the load connected. Failure to do so may result in damage to the LED array

Important

It is recommended that the module is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The conversion requires an unswitched supply for charging the battery and a switched supply if the unit is being used for maintained operation.

ISOLATE BOTH MAINS SUPPLIES AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation

When converting a luminaire observe the following points:-

- 1. Ensure that the module and battery pack will operate within their temperature ratings at their chosen loaction.
- 2 Wire the module & battery into the luminaire as per wiring diagram on Pg2.
- 3. Ensure that the Permanent Live & Switched Live feeds are connected correctly
- Arrange the wiring to avoid running the 240 Volt cables next to the 4. modules output to the LED to obtain the best EMC results.
- 5. Requirements for 'F' markings must be observed.
- Identify clearly the NEW Un-switched supply. 6.
- 7. Ensure the LED Charge Indicator is clearly visible in every day use.
- If fitted within a metal enclosure, connect earth terminal to metal gear 8 tray for improved EMC
- 9. This module is not intended for use in luminaires for high-risk task area lighting.
- 10. This module is protected against battery polarity reversal.

Do not connect the battery until an assured permenant supply is present. 11.

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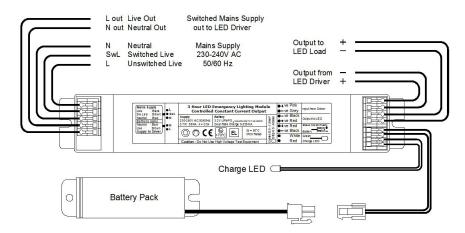
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Typical Conversion Wiring Diagram



Testing/Commisioning:

- Ensure the load is connected.
- Connect the battery.
- Switch on the Unswitched Supply Check the Charge LED illuminates.
- Switch on the Maintained Supply Check the LED illuminates as normal.
- Switch off the Maintained Supply.
- Switch off the Unswitched Supply Check the Charge LED extinguishes and the load LED illuminates at a reduced output.
- Enter the commissioning date on the Battery Pack. Switch on the Unswitched Supply

Luminaire Ref/Location		In Cas	In Case of difficulty, contact the Installation Engineers:-								
		Tel:									
Full Recharge Time 24 Hours				Duration 3 Hours			Lamp Type - LED				
ROUTINE TEST RECORD											
	Year 1		Year	Year 2		Year 3		Year 4		Year 5	
Monthly Test	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date	
Functional											
Functional											
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Three Hour											

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