Installation & Wiring Instructions
S/ALP/1 Standalone Emergency LED

Liteplan
emergency lighting

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

Description:

The S/ALP/1 kit is a standalone 3 hour non-maintained emergency driver unit suitable for use with a variety of ceiling mounting LED minispot units. The battery is a 3.2V 3.8Ah Lithium Iron Phosphate (LiFePO4) that enables the driver to provide a 700mA output to the LED emitter in emergency conditions.

The kit is supplied with a choice of differing LED emitters which offer varying outputs and arcs of illuminance.

Lumen and Optic Angle

S/ALP/1/43/FL	115 ° Open Area Optic 237 lumen
S/ALP/1/43/OA	135 ° Open Area Optic 268 lumen
S/ALP/1/43/CO	115 ° x 155 ° Corridor Optic 266 lumen
S/ALP/1/44	135 ° Open Area Optic 268 lumen

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Input Current & PF (Charging)	2.5W 18mA - λ = 0.6
(Standby)	0.4W 9mA - λ = 0.2
Duration	3 hours
Ambient Temp.	0°C to + 50°C
Max Case Temperature	70°C
Max Battery Temperature	55°C
Mains Input	0.5mm - 1.5mm
Battery Fuse	Internal
Battery Discharge Current	900mA
Discharge Voltage Limit	2.5V
Ingress Protection	IP20
Battery Pack	3.2V 3.8Ah LiFePO4
Battery Type	High Temp - IFpR27/67
Charge Current	225mA Nom.
Recharge Period	24 Hours
Module Size (L x W x H)	150mm x 30mm x 28mm
Fixing Centres	145mm
Battery Size (L x Diameter)	90mm x 35mm
Module Weight	0.07Kg
Battery Weight	0.13Kg
LED Weight	0.06Kg
Minimum Void Depth	90mm

Important

It is recommended that the remote kit 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 for maintained operation.

ISOLATE BOTH MAINS SUPPLIES AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.
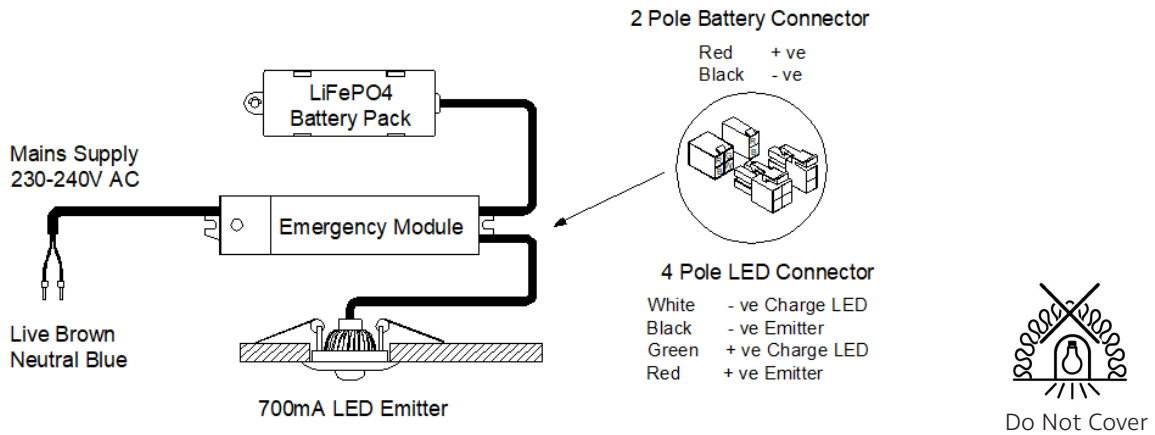
Installation:
1. Cut a 40mm diameter hole in the ceiling tile.
2. Connect the LED Bezel to the main assembly via the 4 way connector.
3. Connect your 2 core mains cable as follows - Brown Unswitched (Battery Charging) 240V and Blue to Neutral.
4. Only connect the battery when the Un-switched supply is fully assured. Even though these units are protected with a Deep Discharge Protection Circuit, the Batteries can be damaged by being left in an uncharged state for prolonged periods. Ensure correct polarity.
5. When the supply is present and the battery connected, check that the green LED indicator is illuminated showing that the supply is healthy and the batteries are charging.
6. Pass the whole assembly through the 40mm aperture and clip the LED housing into the ceiling.

LiFePO4   CE   UKCA

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Typical Wiring Diagram

2 Pole Battery Connector

Red   + ve
Black   - ve

Mains Supply
230-240V AC

LiFePO4 Battery Pack

Emergency Module

Live Brown
Neutral Blue

700mA LED Emitter

4 Pole LED Connector

White   - ve Charge LED
Black   - ve Emitter
Green   + ve Charge LED
Red   + ve Emitter

Do Not Cover

Testing/Commisioning:

- Ensure the Load is connected.
- Connect the battery.
- Switch on the Unswitched Supply - Check the Charge LED illuminates.
- 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 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 2		Year 3		Year 4		Year 5		
Monthly Test	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date	
Functional											
Functional											
Functional											
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Functional											
Functional											
Functional											
Functional											
Functional											
Three Hour											

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