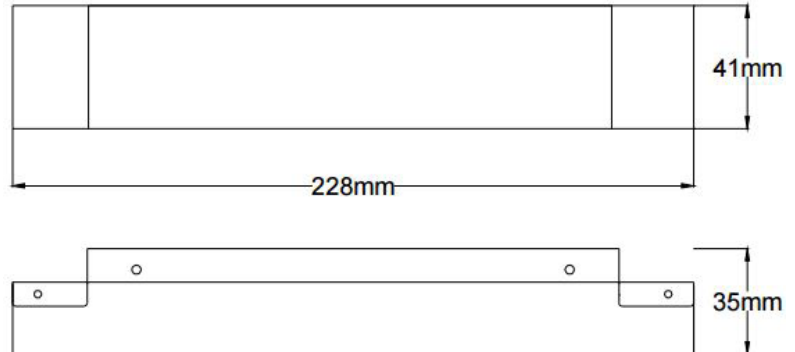


PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Description:

The Liteplan MMB/NC/10 is an emergency conversion kit that provides 230Vdc to mains rated lamps/luminaires, that are suitable of accepting a DC voltage

The pack is designed to pass through a 52mm aperture and is supplied with an LED mounting collar so that the charge LED can be fixed into the ceiling adjacent to the luminaire.



Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Input Current & PF	35mA - $\lambda = 0.84$
Duration	3 hours
Ambient Temp.	0°C to + 40°C
Max Case Temperature	70°C
Max Battery Temperature	55°C
Terminal Blocks	0.5-1.5mm ² Screw
Battery Fuse	Internal
Battery Discharge Current	400mA
Discharge Voltage Limit	10.2V
Ingress Protection	IP20
Battery Pack	12V 4.0Ah NiCd
Charge Current	200mA Nom.
Recharge Period	24 Hours
Module Size (L x W x H)	228mm x 41mm x 35mm
Battery Dimensions	850mm x 38mm diameter
Overall Weight	2Kg

MMB/NC/10 Up to 10W loads that accept DC
Open Circuit Voltage (U-OUT) = 270 Volts

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.

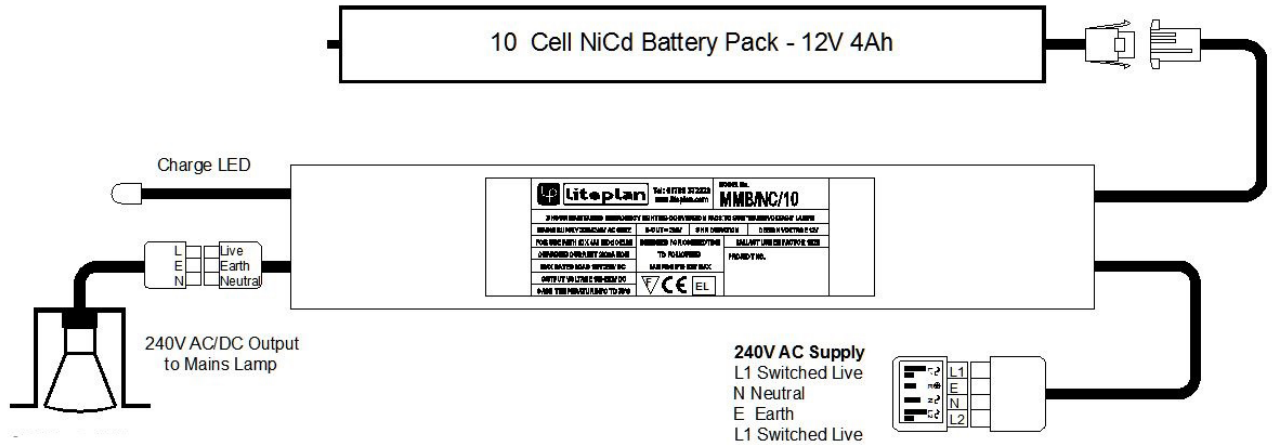
Installation

When converting a luminaire observe the following points:-

1. Fit the MMB/NC/10 via the mains voltage down lighter (MVD)/luminaire mounting cut out.
2. Connect the Un-switched (Battery Charging) 240Vac supply to the Un-switched terminals
3. Connect the MVD LED lamp/luminaire to the 240V Output terminals. Ensure you do not exceed the maximum wattage rating of the unit.
4. For maintained units connect the switched (Lighting) 240Vac supply to the switched supply terminals.
5. 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 NiCd batteries can be damaged by being left in an uncharged state for prolonged periods.
6. The green LED indicator shows that the supply is healthy and the batteries are charging.
7. Sign and date the battery commissioning date when the battery is finally connected.

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Typical Conversion Wiring Diagram



Testing/Commissioning:

- 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 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											
Functional											
Functional											
Functional											
Functional											
Functional											
Functional											
Functional											
Functional											
Three Hour											