

Installation & Wiring Instructions

MML Range Conversion Kit



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

Description:

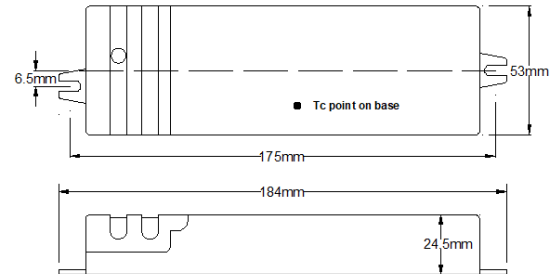
The Liteplan MML Range is an emergency conversion kit that provides 230V DC to mains rated lamps/luminaires, that are suitable of accepting a DC voltage

The 4W pack is designed to pass through a 60mm aperture and the 8W pack is designed to pass through a 75mm aperture. They are both supplied with an LED mounting collar so the charge LED can be fixed into the ceiling adjacent to the luminaire.

The product features battery temperature protection in accordance with IEC 61347-2-7: 2012+A12:2022.

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Input Current & PF	See Datasheet
Duration	3 hours
Maximum Module Tc	70°C
Minimum Battery Tc	0°C
Maximum Battery Tc	55°C
Terminal Blocks	0.5-1.5mm ² Screw
Battery Fuse	Internal
Battery Discharge Current	900mA Nominal
Discharge Voltage Limit	5V (4W) & 10V (8W)
Ingress Protection	IP20
Battery Pack	6.4V 3.8Ah & 12.8V 3.8Ah
Battery Chemistry	LiFePO ₄
Battery Type (4W)	2IFpR27/67
Battery Type (8W)	4IFpR27/67
Charge Current	250mA Nominal
Recharge Period	24 Hours
Module Size (L x W x H)	184mm x 53mm x 24.5mm
Battery Dimensions (4W)	159mm x 35mm diameter
Battery Dimensions (8W)	159mm x 60mm x 42mm
Overall Weight	0.45Kg & 0.67Kg



Fixing Centres 175mm

MML/4W/TP60 Up to 4W loads that accept DC voltage
Open Circuit Voltage (U-OUT) = 260 Volts

MML/8W/TP60 Up to 8W loads that accept DC voltage
Open Circuit Voltage (U-OUT) = 260 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:-

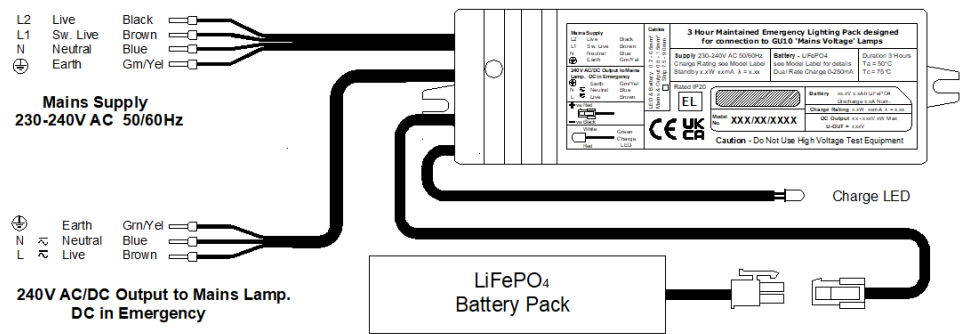
1. Fit the MML via the mains voltage down lighter (MVD)/luminaire mounting cut out.
2. Connect the Un-switched (Battery Charging) 240Vac supply to the Un-switched terminals, L2.
3. Connect the MVD LED lamp/luminaire to the 240V Output terminals. Ensure you do not exceed the maximum wattage rating of the unit.
4. For maintained units connect the switched (Lighting) 240Vac supply to the switched supply terminals, L1.
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 LiFePO₄ 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/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.
- If the battery case temperature falls below 0°C or goes above 55°C the charger will cut-off and the charge LED will go out.

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										
Three Hour										

