# Installation & Wiring Instructions T2N/2S High Voltage DALI-2 Self-test **Emergency Conversion Kit**



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

## **Description:**

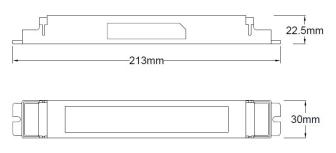
The Liteplan range of T2N/2S modules are designed to convert a wide range of high voltage LED types. The T2N/2S will convert most standard LED luminaires and arrays between 50V and 300V. This makes the T2N/2S suitable for linear luminaires, high voltage boards and even some mains voltage lamps (subject to testing). The modules are designed to generally be installed by breaking into the low voltage connection between the mains 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 module 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 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	
Power Rating (Charging)	3.9W 21mA λ = 0.77	
Power Rating (Standby)	1.4W 12mA λ = 0.47	
Insulation between supply & battery	Double Reinforced	
Duration	3 hours	
Maximum Module Tc	70°C	
Minimum Battery Tc	0°C	
Maximum Battery Tc	55°C	
Recharge Period	24 Hours	
Battery Type	6.4V 4.8Ah LiFePO4	
Charge Current	225mA nominal	
Discharge Current	950mA nominal	
Discharge Voltage Limit	5.0 Volts	
Ingress Protection	IP20	
Recharge Period	24 Hours	
Module Size (L x W x H)	213mm x 30mm x 22.5mm	
Module Fixing Centers	207mm	
Module Weight	0.11Kg	
Battery I	Details (mm)	
Stick 157mm x 26.5m	nm x 28mm FC = 150mm	
Battery Weight	0.20Kg	
Cable Entry Size	0.5mm - 1.5mm	
Average Emergency Power	5.3W	



## Fixing Centres 207mm

T2N/2S

Prated - 5.3W Irated - 104-17mA Voltage Range 50 - 300 Volts Open Circuit Voltage (U-OUT) = 350 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. Fit the module & battery pack into the existing luminaire ensuring that they will operate within their temperature ratings.
- If the module & battery pack do not fit integrally, then a remote 2 conversion can be used. Ensure that the interconnecting loom is kept as short as possible.
- Wire the module & battery into the luminaire as per wiring diagram on Pg2. 3. 4. Ensure that the Permanent Live & Switched Live feeds are connected
- correctly
- Ensure that the DALI pair is connected to the DALI operating system 5.
- Arrange the wiring to avoid running the 240 Volt cables next to the 6. modules output to the LED to obtain the best EMC results.
- 7. Requirements for 'F' markings must be observed.
- 8. Identify clearly the NEW Un-switched supply.
- 9. Ensure the LED Charge Indicator is clearly visible.
- 10. If fitted within a metal enclosure, connect earth terminal to metal gear tray for improved EMC.
- 11. This module is not intended for use in luminaires for high-risk task area liahtina.

**遠(** そ 話

12. This module is protected against battery polarity reversal.

Tel +44 (0)1708 372223 | www.liteplan.com | customerservice@liteplan.com | RM3 OAP. UK

Liteplan reserve the right to change colour, price or specification without prior notice

Alitemesh DALL 

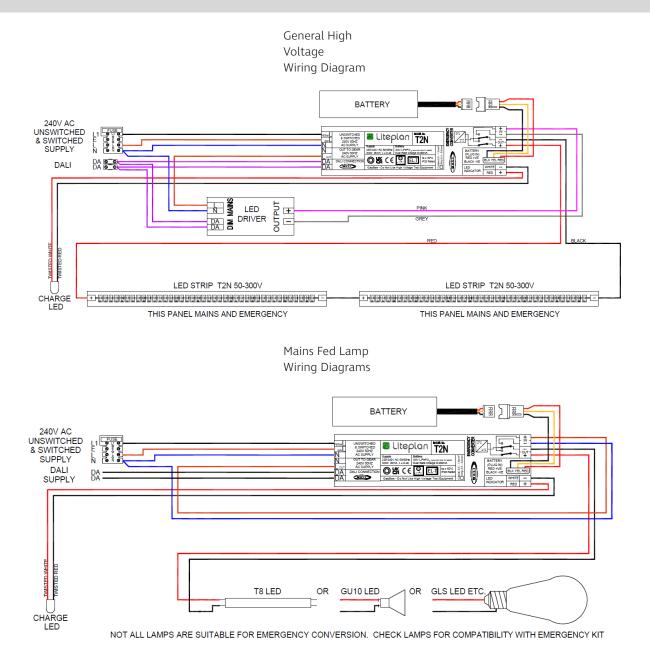
# Installation & Wiring Instructions

T2N/2S High Voltage DALI-2 Self-test Emergency Conversion Kit



**E C C F** 

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



LED Fault indication		
Green Solid	Battery Charging, no fault	On
Green Blink	Pre-Commissioning	2.0s on, 0.2s off
Green Flash	Function Test running	0.2x on, 2.0s off
Green Flash	Duration test running	0.2s on, 2.0s off
Red Blink	Battery Temperature fault	0.2s on, 3.8s off
Red Flash x1	Battery fault	0.5s on, 3.5s off
Red Flash x2	Lamp fault	2x 0.5s on, 2.5s off
No Indication	Fault	-
Red/Green Flash	Duration test timout (after 7 days)	2.0s green, <mark>0.2s red</mark>

Tel +44 (0)1708 372223 | www.liteplan.com | customerservice@liteplan.com | RM3 OAP. UK

Liteplan reserve the right to change colour, price or specification without prior notice

Alitemerh DALL