

AP-EMPACK2 – EMERGENCY REMOTE BOX



Each emergency lighting driver in the EMPACK2 range is designed to facilitate the addition of emergency lighting operation to standard mains luminaires.

The incorporated drivers are designed in accordance with BS EN 60598-1, BS EN 60598-2-22, BS EN 61347-1, BS EN 61347-2-7, BS EN 61347-2-13 and BS EN 62386-202.

For maintained operation EMPACK2 modules must operate in conjunction with the existing drivers supplied with the mains luminaires.

In normal mains operation the LED array is powered from the existing mains driver and in emergency operation by the EMPACK2.

KEY FEATURES AND BENEFITS

- > Available in 2W and 3W versions
- > Basic, Self-Test & DALI2 communication options
- > Maintained or Non-maintained mode of operation
- > 3-hour emergency operating time
- > 3-pole technology: LED module changeover and delayed power switching for the LED-driver
- > Constant power output in emergency mode
- > Specific charging regime for LiFePO₄ battery
- > Deep discharge protection
- > Suitable for emergency escape lighting and open area lighting
- > 5-year warranty on Self-Test and DALI units

TECHNICAL DATA

Input voltage	220V-240V _{AC}
Mains input frequency	50-60Hz
Ambient temperature <i>ta</i>	+5°C to +50°C
Unit max. case temperature <i>tc</i>	65°C
Safety class	II
Ingress Protection Class	IP20
Changeover time	< 0.5 seconds
Battery technology	LiFePO ₄
Emergency duration	3 Hours
Battery recharge period	24 Hours for rated duration
Functionality test	Weekly (See '10-93-0100 SELF-TESTING OF CONTROL GEAR & LUMINAIRES')
Duration test	Annually
Enclosure dimensions	L245mm x W46mm x H30mm
Minimum Ceiling Hole	Ø60mm x 130mm Ceiling Void
Enclosure material	Self-Extinguishing Polycarbonate

Luminaire Type	Part No.	Description	Voltage Range	Emergency Duration	Powergency (W)	Maximum output working voltage (Uout/O/C Voltage)	Max. Supply Wattage (W)	Supplied Battery
	AP-EMPACK2	55V 3W 3HR LFP EMERGENCY REMOTE BOX	12-55V	3Hr	3W	60V	6.5W	14-12-0023

OPTIONAL EXTRAS

The table below indicates the available optional extras for the AP-EMPACK2 product range.

Product Option Code	Description	Description on Product Label
Product Code/1	Complete with Twist Lock Cables for LED Array	C/W TL
Product Code/2	Complete with Cable Leads for LED Array	C/W CL
Product Code/3	Complete with Twist Lock Cable for LED Array & Mains Power Leads for Input & Output to LED Driver	C/W TL & PL
Product Code/4	Complete with Cable Leads for LED Array & Mains Power Leads for Input & Output to LED Driver	C/W CL & PL
Product Code/5	Mains Power Leads for Input & Output to LED Driver	C/W PL
Product Code/6	Complete with Cable Leads for LED Array & Mains Power with DALI Comms Lead for Input & Output to LED Driver	C/W CL & DPL
Product Code/7	Complete with Twist Lock Cables for LED Array & Mains Power with DALI Comms Lead for Input & Output to LED Driver	C/W TL & DPL

BATTERY TECHNICAL DATA

Part No.	Chemistry	No. of Cells and Format	Cell Type	Nominal Voltage	Capacity
14-12-0023	LifePO ₄	2-CELL PACK	1865	3.2V	4.4Ah
14-12-0024	LifePO ₄	2-CELL PACK	1865	3.2V	3.0Ah

STANDARDS AND APPROVALS

- > BS EN 55015
- > BS EN 61000-3-2
- > BS EN 61000-3-3
- > BS EN 61347-1
- > BS EN 61347-2-7
- > BS EN 61347-2-13
- > BS EN 61547
- > BS EN 62034
- > BS EN 62384
- > BS EN 62386-202

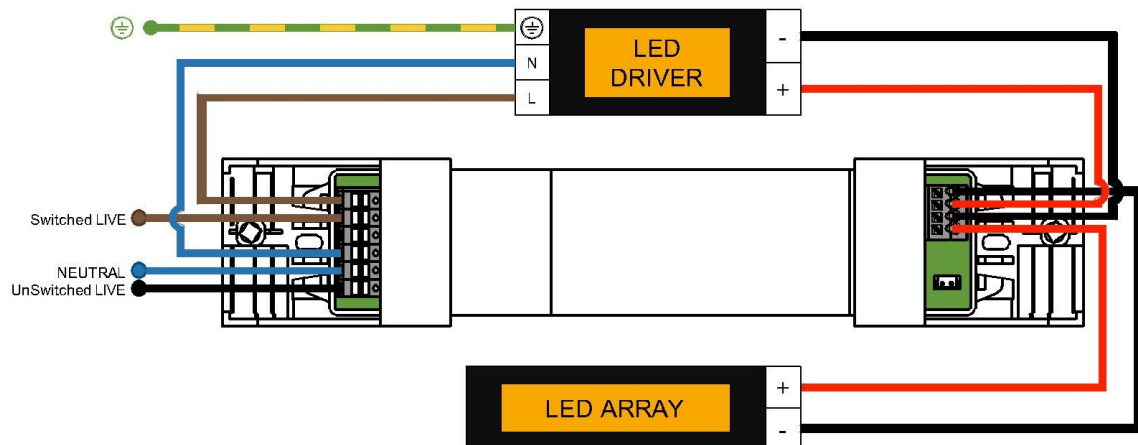


850°C

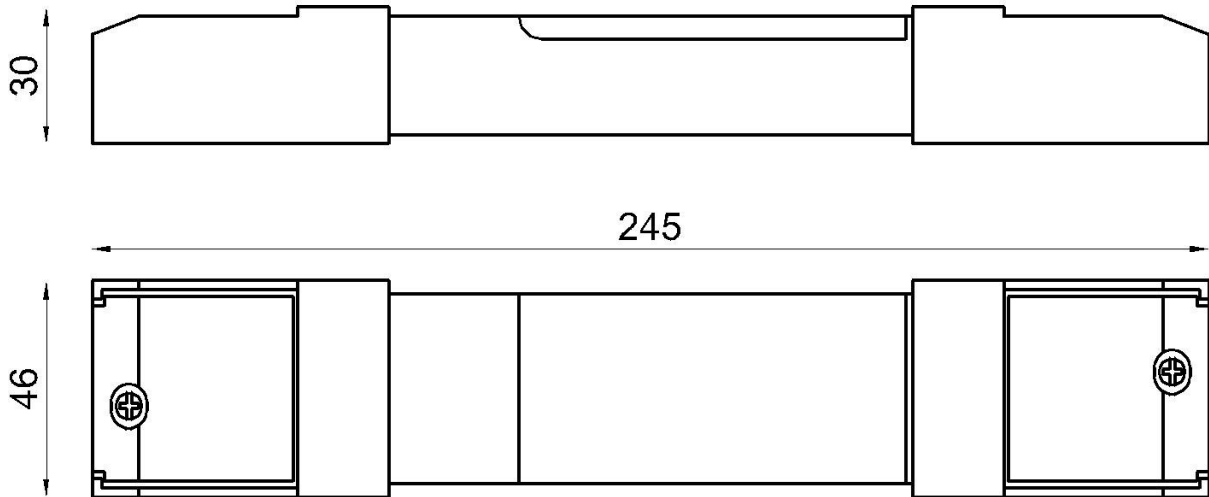


WIRING DIAGRAM

BASIC & SELF-TEST



DIMENSIONS



STATUS INDICATOR

Visual status indicator for Basic models

- LED Green:** No fault / normal state.
- LED Extinguished:** Emergency operation in progress / battery fully discharged.

Visual status indicator for Self-Test models

- LED Green:** No fault / normal state.
- LED Continuous Flashing Red:** Battery fault—either insufficient battery capacity or interrupted connection. The fault indication is reset once the fault is cleared.
- LED Intermittently Flashing Red:** Luminaire fault.
- LED Flashing Green / Momentary Red:** Duration test interrupted, postponed or Self-Testing failure.
- LED Extinguished:** If the LED is still off after more than 5 minutes of switching on the mains, then the mains or the unit is faulty.