



## INSTALLATION GUIDE AEM/PACK/ST

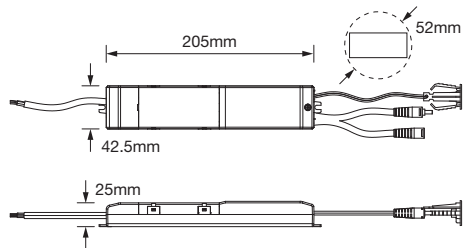
**⚠ ENSURE POWER SUPPLY IS OFF WHEN HANDLING ANY ELECTRICAL EQUIPMENT.**

- This product may need to be installed by a qualified electrical installer.
- Please read this guide in its entirety to fully understand the products before attempting any install.
- All electrical work should be completed in accordance with the latest IET regulations, and/or any other relevant rules, regulations or laws of the country in which it is being installed.
- The item must be installed in isolation from any insulating material and is adequately ventilated to prevent premature failure.
- Ensure power supply is isolated prior to installation, maintenance or performing any other form of electrical work.
- In the event of incorrect or improper function with specific regard to any of ALL LED's products and contact ALL LED for further advice.

## Technical Specifications

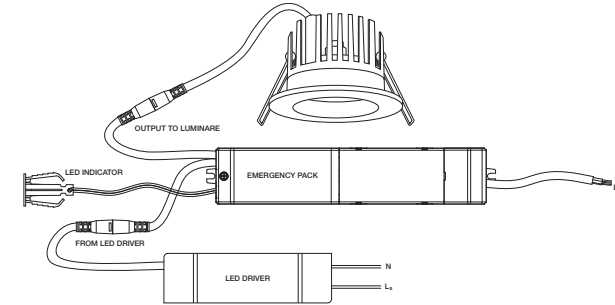
Product Code	AEM/PACK/ST
Operating Voltage	220-240V AC
Operating Current (A Max)	0.05A
Max Output Power	2W
Output Current (Max)	30-200MA
Output Voltage (Max)	10-60V DC
Power Factor	≥0.5
Class	II
Body Material	Polymer
Frame Colour	Black
Ambient Operating Temperature (°C)	0°C~50°C
Input Frequency (Hz)	50Hz /60Hz
Guarantee	5 Years
Charge Time	24 Hrs
Battery Type	LifePO4
Battery Voltage	6.4V
Battery Current	2 x 1800mAH
Battery Wattage Hours	11.52wH
Emergency Duration	3 Hrs
Indicator Cutout	20mm

## Dimensions



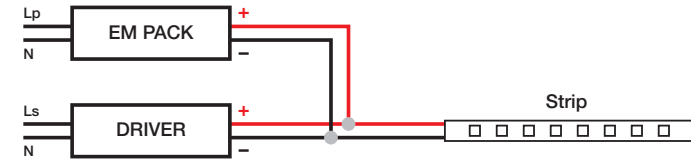
## Wiring Diagram

1) For use with constant current light sources.



2) For use with constant voltage (LED Strip)

Please wire both LED strip and LED driver to the luminaire cable. Connectors will need to be cut away to bare wire.



## Self Testing

Fault / Test / Status	Reason	Charge Indicator Status	Charge Indicator Status
Battery Fully Charged And Operational	Standard Daily Use	Solid Green	
Battery Charging	Initial Charge / Battery Top Up	Solid Green	
Auto Test 3 Hours (Every 12 months)	Periodic Self Test	Flashing Green 3 Sec On 1 Sec Off	
Auto Test 5 Min (Every 30 days)	Periodic Self Test	Flashing Green 3 Sec On 3 Sec Off	
Duration Test Fault	Failed The 3 Hour Annual Test	Flashing Red 0.5 Sec On 0.5 Sec Off	
LED Fault	Not Plugged In Or Damaged/Faulty	Flashing Red 2 Sec On 2 Sec Off	
Battery Disconnected / Faulty	Not Plugged In Or Damaged/Faulty	Solid Red	

# Troubleshooting Guide

PROBLEM	CAUSE(S)	SOLUTION(S)
No Light Output From LEDs	No power to drive components	A qualified installer/electrician should check the primary voltage side of the product to check the input voltage.
	Loose connection on primary side.	Ensure continuous and correct connection between terminals.
	Loose connection on secondary side.	Ensure continuous and correct connection between terminals. Ensure the polarity is correct; (Red = +, Black = -).
	No output from the driver.	Driver may be faulty and require replacement. Please order a replacement via your local outlet. Product codes are listed on the specification table on the first page.
	Overvoltage may have caused damage to the sensitive LED components.	These cases are rare and the item may need replacement and/or investigation as to the cause of failure.
LEDs Flashing	Unstable or incorrect input voltage.	Please only use a stable voltage supply as stipulated earlier for this product. Failure to do so will void the warranty.
	LED driver may be connected to a dimmer switch	Please remove the dimmer switch. Use of this product on a dimmer will void the warranty. This product is supplied non-dimmable as standard.
	Loose connection on primary side.	Ensure continuous and correct connection between the terminals.
	Loose connection on secondary side.	Ensure continuous and correct connection between terminals. Ensure the polarity is correct; (Red = +, Black = -).
	Wattage overload	Too much power is trying to be drawn from the item. Flashing indicates the overload protection is actively working to prevent any damage to the item. Reduce the load on the DC side of the item.



## ATTENTION

**IF ANY PROBLEMS PERSIST, PLEASE CALL THE ALL LED TECHNICAL DEPARTMENT FOR FURTHER ASSISTANCE.**

# Safety

- Do not cover the ground contact.
- Do not cover the luminaire, hang or fasten anything from it.
- Do not operate if any visible damage can be seen to the product.
- Do not operate if any water ingress has occurred.
- Do not operate if any smoke, steam or crackling noises can be heard from the luminaire.
- Do not operate if any signs of overheating are recognised.
- Avoid installation in any areas where there is a risk of strong mechanical loads.
- Do not place any material over the lens or LED diode/chip.
- Do not insert objects into the luminaire.
- Do not clean using any solvent based abrasive or aggressive product.
- Do not pull any cables connected to the product.
- Do not direct the luminaire into a person's eyes, as this unit may have an intense light output, which if incorrectly used may cause eye damage.
- Light engines/LEDs and other light sources may heat up, please take care when handling the products.
- The manufacturer will not be deemed liable or held responsible for any damages caused by faults or manufacturing defects that may be present in any of its products or the misuse or incorrect installation of this device. Please refer to our troubleshooting guide for further information.
- The manufacturer will not be held liable for any death(s) or injuries caused by misuse or poor installation or any unreported faults of this product version or versions thereof.
- LEDs are sensitive to electrostatic discharge. Do not touch the surface of the LED module.
- Do not connect to a temporary electricity supply, this may damage the electronics.
- Light fittings with an integrated emergency option come with a separate installation and wiring leaflet. Please refer to this manual for further details. If the manual is unavailable please contact an ALL LED representative for assistance.
- It is strongly recommended that a Residual-Current Device (RCD) is used with this product to minimise the risk of electrocution.
- REPLACE DAMAGED GLASS IMMEDIATELY.
- Keep away from children.
- Do not install in areas with; high acid rain, acidic soil, high salt content, coastal environments, high concentration of chemical substances.

# Returns & Faulty Items

- If any problem is encountered during or after installation, please call ALL LED technical department to get the problem resolved as soon as possible.
- Please do not just return the item to the outlet you purchased it from, as you are only entitled to a replacement or refund after the unit has undergone testing and the unit has been confirmed as having a manufacturing defect/fault. Your statutory rights are not affected.
- The manufacturer will not be deemed liable or held responsible for any damages caused by faults or manufacturing defects that may be present in any of its products or the misuse or incorrect installation of this device. Please refer to our troubleshooting guide for further information.
- All installations must be carried out in accordance with this installation guide and user manual.
- All goods are supplied under the terms and conditions of ALL LED LTD, a copy of which may be obtained upon written request.



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Environmental Protection  
Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice



ISOLATE MAINS SUPPLY  
BEFORE HANDLING ANY  
ELECTRICAL PRODUCTS

The manufacturer will not be deemed liable or held responsible for any damages caused by faults or manufacturing defects that may be present in any of its products or the misuse or incorrect installation of this device  
Your statutory rights are not affected.

