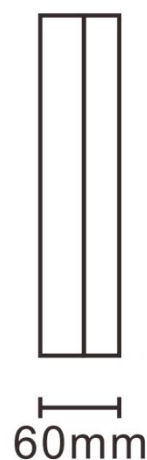
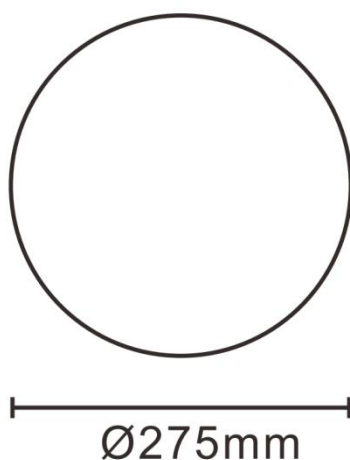


Energy Management Company - Superled

Model: FAT-LED-X18W DATASHEET

1. Product Features

- The self-test function of the system with annual inspection and monthly inspection.
- Maintained working mode, can be used for normal lighting, can also be used for emergency lighting.
- IP65 protection level .unsustainable
- Voltage protection: wide voltage input AC220V-240V
- Short circuit protection and no loading protection.
- External test button and three-color LED indicator.
- Battery: High capacity lithium ion battery with overcharge and over discharge protection.
- Fire-resistant plastic housing at the engineering level, made by fire-resistant PC.
- Certification: CB, CE



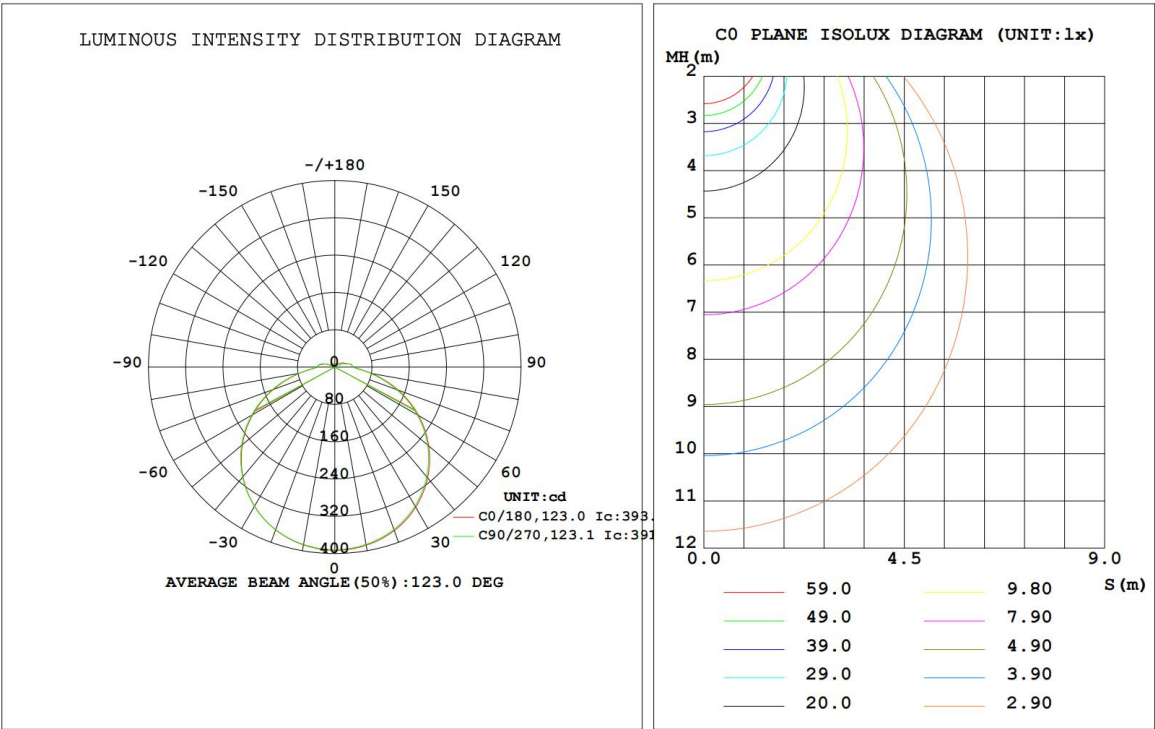
2. Product Specifications

Product Item	FAT-LED-X18W
Rated Voltage	AC 220-240V
Rated Frequency	50/60 Hz
Power Factor	≥ 0.65
Standby power	≤ 2.5 W
Conversion Efficiency	$\geq 90\%$
Automatic fault detection	Monthly inspection, annual inspection, Manual simulation check
Color temperature	3000K & 4500K & 6000K
Housing material	Mask: Translucent fireproof PC, Housing: Fireproof ABS plastic, Lens: Transparent Acrylic
Lighting power	17.5W $\pm 1\%$
Main light flux	1100lm $\pm 5\%$
Emergency power	5W $\pm 1\%$
Emergency luminous flux	400lm $\pm 5\%$
Light source specification	SMT2835 9V1W*32PCS 4C8B
Output Voltage	DC 36 V $\pm 5\%$
Charging Power	Max 5 W
Charging Current	Max 650mA
Battery Voltage	6.4V (LiFePO4 battery)
Battery Capacity	4x1500mAh
Conversion Time	$\leq 0.5S$
Charging Time	$\leq 24h$
Emergency Time	≥ 180 min
Overcharge Protection	$\geq 8.05 \pm 0.1V$ Enter the Balanced Charging Mode from the Back, $8.50 \pm 0.01V$ Cut-off charging
Over Discharge Protection	$5.5 \pm 0.1V$
Electrical grade	Class II
Overheat Protection	$\geq 100 \pm 10^{\circ}C$, Automatic recovery after cooling
Ambient Temperature	-5-40 $^{\circ}C$
Storage Temperature	-10-45 $^{\circ}C$
Protection Level	IP65
Inner Box Dimension	28.5x28.5x6.8 cm
Outer Box Dimension	69.5x29.5x30.5 cm
N.W. / G.W.	12.5KGS/CTN; 14.8KGS/CTN
Package	1 PCS/BOX ; 10 BOXES/ CTN

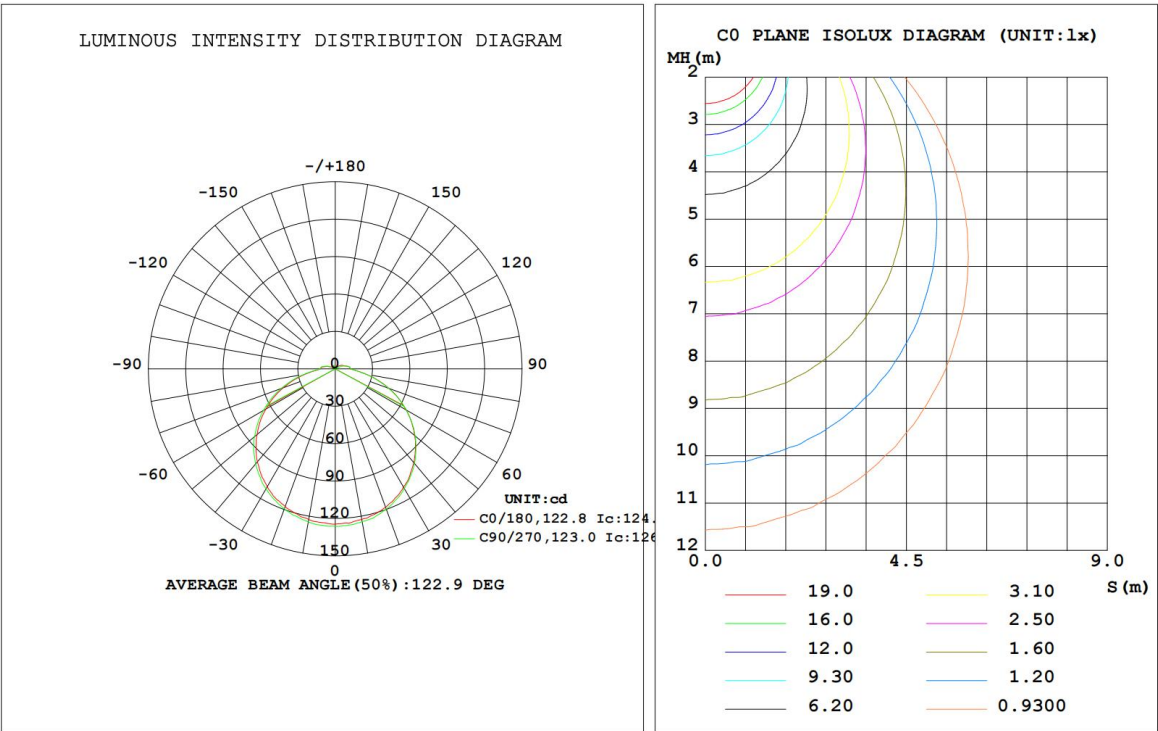


3. Luminaire Photometric

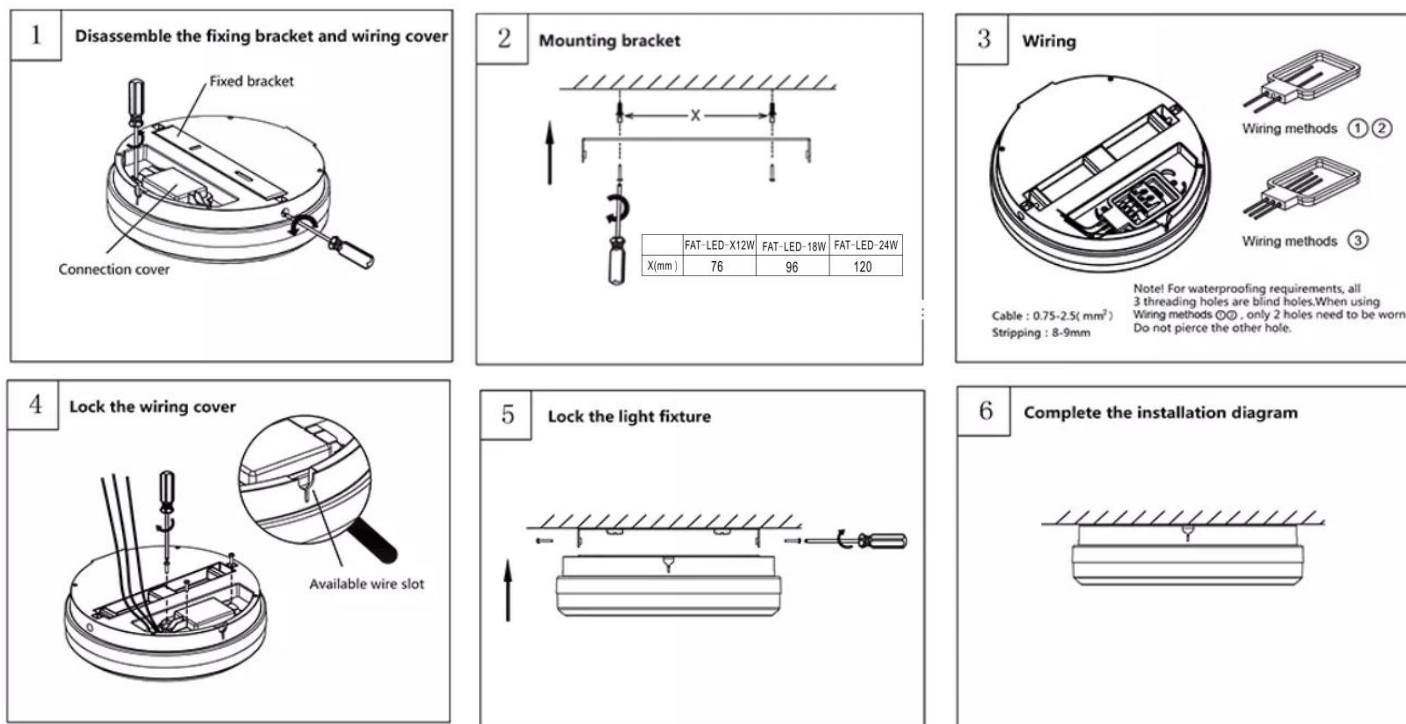
Maintained



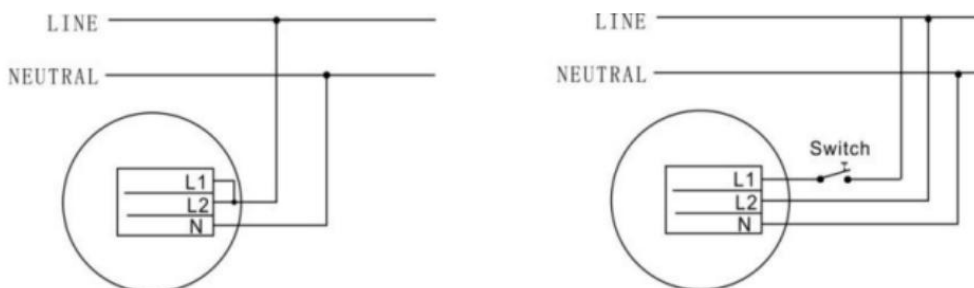
Non-maintained



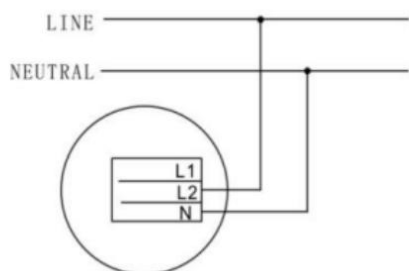
4. Installation



Maintained



Non-maintained



5. INDICATOR

Indicator Light Function	RED	When battery is charging: LED ON. Full charged or emergency status: LED OFF.
	GREEN	Main power: LED ON; emergency status: LED OFF. Monthly inspection status: slowly flashing. Annual inspection status: fast flashing.
	RED & GREEN	Battery fault: fast flashing. Light source fault: slowly flashing Self-test status if battery not charged: long bright flashing.
Test Button Function	Manual Test	Press the button for 1 second and release, simulating emergency status.
	Manual Monthly Inspection	Long press the button for 3-5 seconds. Release the button to start monthly inspection;press once again to quit monthly inspection.
	Manual Annual Inspection	Long press the button for 5-7 seconds. Release the button to start annual inspection;press once again to quit annual inspection.
	Emergency Shutdown	In emergency state long press for more than 7 seconds or quickly press 2 times for emergency shutdown.
	Fault Removal	After a fault is removed press the button once and the system enters normal state
Self-Test Function	Monthly Inspection	Every 30 days after installation the system will automatically switch to the monthly inspection state.The duration is 35 seconds.If there is no fault it will automatically exit and return to AC mains state
	Annual Inspection	Every 365 days after installation the system will automatically switch to the annual inspection state.The duration is 3 hours.If there is no fault it will automatically exit and return to AC mains state.
Fault Detection	Battery Disconnected	1. Battery open-circuit in Mains power status:Red and Green light fast flashing. Will be auto restored after troubleshooting. 2. Battery open-circuit in Self-test status:Red and Green light fast flashing. Press test button to recover after troubleshooting.
	Short-circuit of charging circuit	1.Short-circuit in Mains power status:Red and Green light fast flashing. Will be auto restored after troubleshooting. 2.Short-circuit in Self-test status:Red and Green light fast flashing. Press test button to recover after troubleshooting.
	Light Source Disconnected	1.Light source open-circuit in Mains power status:no failure reported. 2.Light source open-circuit in Self-test status: Red and Green light slowly flashing. Press test button to recover after troubleshooting.
	Light Source Short-circuit	1.Light source short-circuit in Mains power status:no failure reported. 2.Light source short-circuit self-test status; Red and Green light slowly flashing. Press test button to recover after troubleshooting.
	Insufficient Discharge Time	1.Monthly inspection status discharge time less than 35 seconds: Red and Green light long bright flashing. 2.The discharge time is less than 3 hours in the annual inspection status; Red and Green light long bright flashing.

6. CUSTOMIZATION

Logo Printing	Available, laser or sticker on the product
Packing	Available, please send us your design artwork

7. Cautions for wiring

Power LED wiring should be as short as possible to increase losses, Recommended lamp connection using copper core wire less than 3 meters. The connection of signal lines such as indicator lamp and test switch should be less than 1 meter. Wall lighting switch (between L and K), wiring must be on the same phase line. In order to use the control device safely and avoid damaging the control device, do not connect two phases to the controller. LED light source is polar light source. Do not disconnect polarity to avoid malfunction and extra loss. In order to use this control device correctly and safely, please connect correctly according to the wiring diagram strictly.

7.1. Recommendation for Installation

This product has a good heat treatment unit, in order to ensure product performance, reliability and service life, it should have good heat dissipation conditions and use environment. Battery packs should be kept away from heat sources, and it is important to ensure that the ambient temperature of the battery packs is within the allowable range. In order to ensure good heat dissipation, the bottom of the product should be well installed on the metal floor or away from the heat source, so that the temperature of the working environment of the product can be controlled within the allowable range. The correct method of mounting on the metal plate is shown in the figure below on the right.

7.2. Electromagnetic interference

- Do not cross-wire the power input line and the light connection line.
- As far as possible, do not parallel the long distance wiring between the power input line and the lamp connection line. When parallel wiring, the distance between 5 and 10 cm should be reserved.
- Do not put the power input line too close to the control device.
- Bending lamp connection.
- Shorten the distance between the input line of the power supply and the control device.
- When running in parallel, the connection line between the power input line and the lamp should be as short as possible.

7.3. Suggestion

- When the light source is replaced at the end of its life, please turn off the power supply and operate it.

- If there is no lamp for a long time and the temperature is too high, please turn off the AC power .
- Can not overwrite LED Emergency Lighting.

8. NOTICE

When using electrical equipment, basic safety precautions should always be followed including the following:

- Before commencing installation or servicing, turn off and isolate the circuit to be worked on by removing the fuse or switching the circuit breaker off at the distribution board.
- This product is suitable for connection to a 220-265Vac 50/60Hz supply.
- The emergency fitting is not suitable for use on a battery supply, trickle or intermittent re-charging circuit.
- The emergency fitting is not protected against supply voltage polarity reversal.
- The recharging device will recharge the battery normally after removal of a battery short-circuit.
- When cutting holes, drilling or screwing take care not to damage existing wiring or pipework.

9. STORAGE

If the emergency light is not used for over 3 months, it should be connected to AC power for full charging and discharging (until LED lamp is completely off). Then keeping the emergency driver on main power for 24 hours and put it in dry ventilated place.



The Waste Electrical & Electronic Equipment regulations (WEEE) requires that products bearing this symbol must not be disposed of with household waste as they may contain substances harmful to the environment. The local authority can provide advice on recycling.