

LED Emergency Power Pack 7.4V Battery (10-300W LED Light)

FEATURES:

1. Easy system integration with LED Driver and LED modules
2. Constant output power
3. Compatible with LiFePO4 and other Li-ion Battery
4. Multi-protection: output no-load/short circuit/low battery voltage/under-voltage/charging current limit protection etc.
5. Monthly and yearly automatic cell count detection
6. Compliant with prevalent international standards
7. Supports Insulation Class I&II applications



APPLICATION:

Office, Supermarket, Stores, Schools, Warehouse, etc.

LED Light (Built-in and Independent use):

LED Tube, LED Bulb, LED Panel, Floodlight, Ceiling Light, Downlight etc.

SPECIFICATION DATA:

CHARGE MODE	
Rated Input Voltage	220-240Vac 50Hz /60Hz
Rated Input Current	0.024 Max.@230Vac
Input Surge Current	10A(twidth=100uS under 50% Ipeak)@230Vac
Power Factor	≥0.4@230Vac
Input Power	<4W@230Vac
Charge Current	200mA (MAX)
Charge Time	24 hours (MAX)
EMERGENCY MODE	
Operating Mode	Emergency
Loading Type	LED Modules/LED Driver
Battery Type	Li-ion 7.4V 3AH
Emergency Power Rate	4W(typical value)
Emergency Duration	3 Hours
Output Current	10-400mA
Output Voltage	10-400VDC
Manually Test	Available
Automatically Test	Available

OPERATING ENVIRONMENT	
Temperature	0~+50°C
Humidity	20-85%
Storage Temperature	-5°C ~+35°C
Housing	Max. 65°C
INDICATOR	
Charging	Green Light flashes slowly and ON after full charge
Fault	Green light flashes fast
EXTERNAL LED DRIVER REQUIREMENTS	
Surge Current	N/A
Input Current	1.5A Max
Output Current	1.5A Max.
Input/output Terminals	Pushing, 0.5-0.75mm ²
FAULT PROTECTION	
Over-charge	Available
Output Voltage	Available
Over Load	Available
Output short circuit	Available
INTERFACE CONTROL	
Bluetooth	N/A
DALI	N/A
OTHERS	
IP Rating	IP20
Classification	Class 2
Installation	Built-in / Independent
Size(mm)	195(L) x 62(W) x 28(H)
Package	kg/CNT; pcs/CNT
REMAEKS:	
LIFESPAN	30000 HOURS @Ta full load (not include the battery)
Test Conditions	All data are getting under the input voltage of 230VAC and 25°C temperatures unless otherwise stated

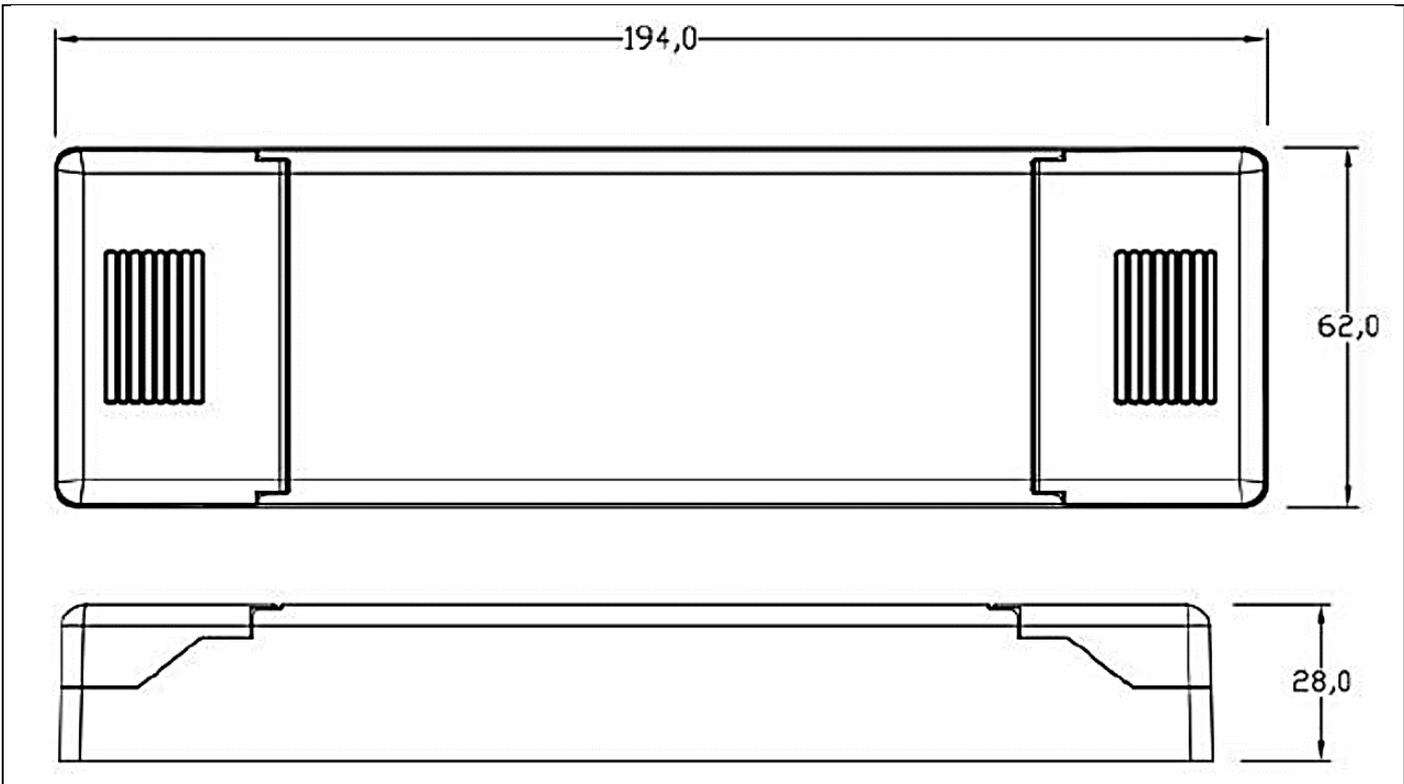
CAUTION:

The emergency inverter is the core device which controls the battery charge or discharge and starts providing backup when there is a power failure. Before using the emergency power pack, please make sure the wiring is correct. After installation, the inverter will automatically go into charging and discharging cycle.

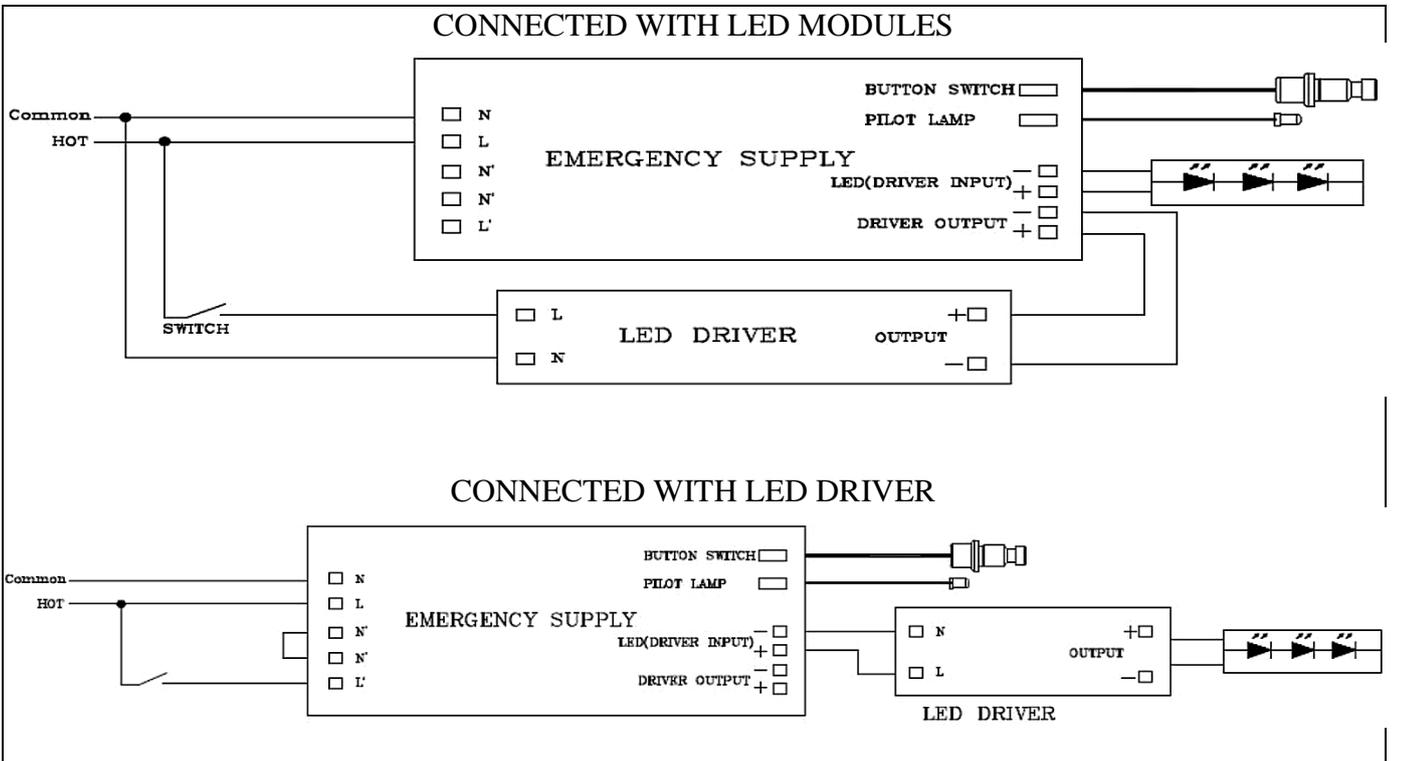
QUALIFICATIONS & WARRANTY:



DIMENSIONS (Unit: mm):



WIRING DIAGRAM:

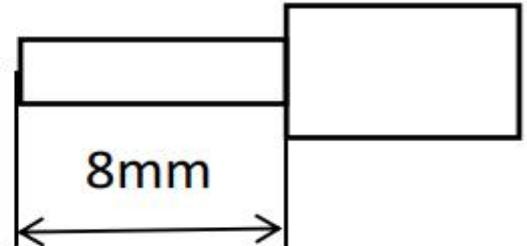


WIRING REQUIREMENTS:

1. Solid or twinsted wire, Diameter: 0.5-0.75mm²
2. Connect or disconnect the wire from the terminal, take a screwdriver to press down the button



0.5-0.75mm²



CERTIFICATE & STANDARD:

Dielectric Voltage Withstand	2000Vac 5mA 60S (Input to Output)
Safety (LVD) Standard	EN61347-1, EN61347-2-7
Electromagnetic compatibility (EMC)	EN55015, EN61000-3-2, EN61000-3-3
Battery Standard	EN61233

OPERATION INSTRUCTIONS:

MUNUALLY TEST

1. Connect all the wires of a prepared power cable to the appropriate terminal block entries.
2. Switch on the AC power supply. The LED Light should light up and the green LED indicator is flashing slowly, signaling the mains connection and battery charging. And LED light will be OFF when switch off the power supply.
3. Press the test switch to enter emergency mode, LED Light will turn to the rated output power and last for 10 seconds, during which the indicator light start breathing mode (brighter and darker gradually cyclely).
4. Analog Monthly Test: Press LTS twice within 3 seconds, the equipment will start monthly test mode, LED light will work based on the set output power for 60 seconds. The indicator will start breathing mode
5. Analog Yearly Test: Continuously charge the equipment with 24 hours, press LTS thrice within 3 seconds, the equipment will start yearly test mode, LED light will work based on the set output power with more than 90 minutes. The indicator will start breathing mode.

AUTO TEST FUNCTION

1. Monthly Test Function: With city power supplied for one month, the emergency power unit will switch to emergency mode for 60 seconds if there isn't any artificial or city power off occuring. After the monthly test, the emergency power unit will switch to city power supply automatically (indicator flash slower and keep ON after getting full charged).
2. Yearly Test Function: With city power supplied for half years, the emergency power unit will switch to emergency mode for more than 90 minutes if the timer record is over than 180 days without any artificial or city power off occuring. After the yearly test, the emergency power unit will switch to city power supply automatically (indicator flash slower and keep ON after getting full charged).
3. If any supply power failure happens, the monthly and yearly timer will start from "0"



OPERATION INSTRUCTIONS:

LUMINAIRE WORKING STATE OR ACTION	GREEN LED INDICATOR	LED LIGHT	COMMENTS
BASIC STATES			
Main supply on, battery being charged	Slow flash	On	
Main supply failure, emergency operation	Breathing mode	On	
MANUAL LED TEST SWITCH(LTS) FUNCTIONS			
Initiation of a manual test - pressing LTS	Breathing mode	On	Duration: 10s
Initiation of a MONTHLY test - pressing LTS TWICE WITHIN 3s	Breathing mode	On	Duration: 60S
Initiation of a YEARLY test - pressing LTS THRICE WITHIN 3s	Breathing mode	On	Duration: ≥90mins
AUTONOMY LED TEST SWITCH FUNCTIONS			
220vac connected with 1 month without any blackout	Breathing mode	On	Duration: 60s
220vac connected with 6 months without any blackout	Breathing mode	On	Duration: ≥90mins
Main power connected after monthly auto-test	Slow flash and keep on After full charged	On	Reclock if any Blackout happens
Main power connected after yearly auto-test		On	

FAULTY OPERATION AND ITS POSSIBLE DIAGNOSIS:

LED INDICATOR DOES NOT LIGHT UP
- AC power failure. - LED indicator is red, the luminaire does not operate (MT version, e.g. in SA / M mode) - Possible damage of one of a luminaire's elements: charging circuit, light source supply circuit, light source itself, battery or an autonomy operation in an emergency mode is too short. It is recommended to repeat the test and, in a case of confirmation of bad results to contact manufacturer
LED INDICATOR FLASHING SLOWLY
The luminaire performs testing (BRRATHING MODE). Please refer to the "autotest function" section
THE LUMINAIRE DOES NOT OPERATE IN EMERGENCY MODE THE STATED TIME
It is possible that the battery requires a full charge cycle (24h). If after 24 hours of charging the luminaire still does not keep a predefined autonomy, it is possible that the battery is run-down or damaged, e.g. due to possible incorrect formatting and needs to be replaced
PRECAUTIONS FOR BATTERY
1. The battery should be charged and discharged at least once every six month is (under normal condition) 2. Do not connect the battery to the circuit when it is not in use to prevent battery over discharge due to self-consumption of the circuit board. 3. When install the battery, keep it away from any heat source and use it only within the specified operating temperature range. 4. The battery should be stored in a cool and dry environment
CAUTIONS
1. All damage that might occur as an effect of the device being used not in accordance to this instruction will result in loss of guarantee. 2. Used or damaged lamps including batteries, are subject to be recycled. They should be delivered to the point of collection of electrical and battery waste or to the manufacturer