

**FEATURES:**

Input voltage: 198-264 Vac  
Emergency Power Pack, with IP20 waterproof structure, adopts MCU precise sampling and constant power output control. It's able to be compatible with voltage requirement of most lamp board in extremely wide output voltage range from 10V-200VDC (recommended range: 20-200VDC). External battery design, convenient selection of different capacities, to meet the needs of different emergency power.



**Rated output**

Output voltage adaptive (range 10-200VDC); Can also be set to a constant voltage output (through 0-10V dimming port)

**External battery design**

External battery design, convenient selection of different capacities, to meet the needs of different emergency power

**Battery**

Support LiFePO4 Battery

**Protection**

Output-no-load protection, short-circuit protection, battery over-voltage and under-voltage protection, charging current limit protection, etc

**Applicable luminaire**

The emergency power kits could be connected to LED module input. Suitable for compact panel light, ceiling lamp, LED batten etc.

**CHARACTERISTICS:**

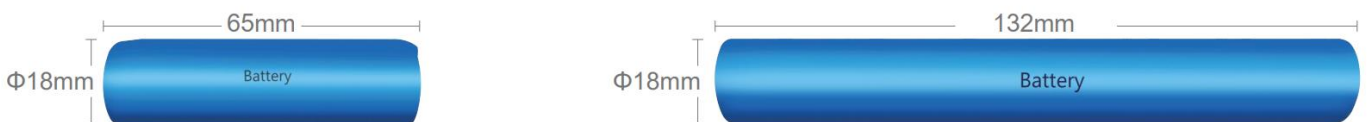
Input Voltage	DC power	Emergency Duration	Output Voltage	Recommend Operation Voltage	Output Current	Battery Capacity	Battery
198-264Vac	1.5W	180min	10-200VDC	20-200VDC	7.5-150mA	3.2V 1.8AH	LiFePO4

**SPECIFICATIONS:**

Input voltage	198-264Vac 50/60Hz
Rated Input Current	0.07A Max. @120Vac
Power Factor	≥0.4@230Vac
Input Power	<3W@230Vac
Charge Current	250mA(MAX.)
Charge Time	24 hours(MAX.)

Operating Mode	Emergency
Load power	Max.50W
Loading Type	LEDs (Maintain)
DC Power	1.5W
Emergency Duration	180 min
Output Current	7.5-150mA
Output Voltage	10-200VDC (Recommended 20-200Vdc)
IP Rating	IP20
Classification	Class II
Installation	External mounting
Size(mm)	95*39*22mm
Package(mm)	Inner box size:246*100*52mm Outerbox size:275*430*290mm 20PCS/CNT
Terminals	Press;wire diameter:0.2-0.75mm <sup>2</sup>
Emergency Switching test	Manually Test (Test Button) / Auto-test (Monthly/Annually)
Abnormal Protection	Over-voltage, over-current, over-temperature, short-circuit, and open circuit protection and current limitation
Operating Temperature	0°C ~50°C
LVD standard	EN61347-1:EN61347-2-7
Lifespan	40000 HOURS@Ta full load(not include the battery)
Note: All parameters are measured at input voltage 230Vac and ambient temperature 25 °C. Special explanation will be given if there are special circumstances.	

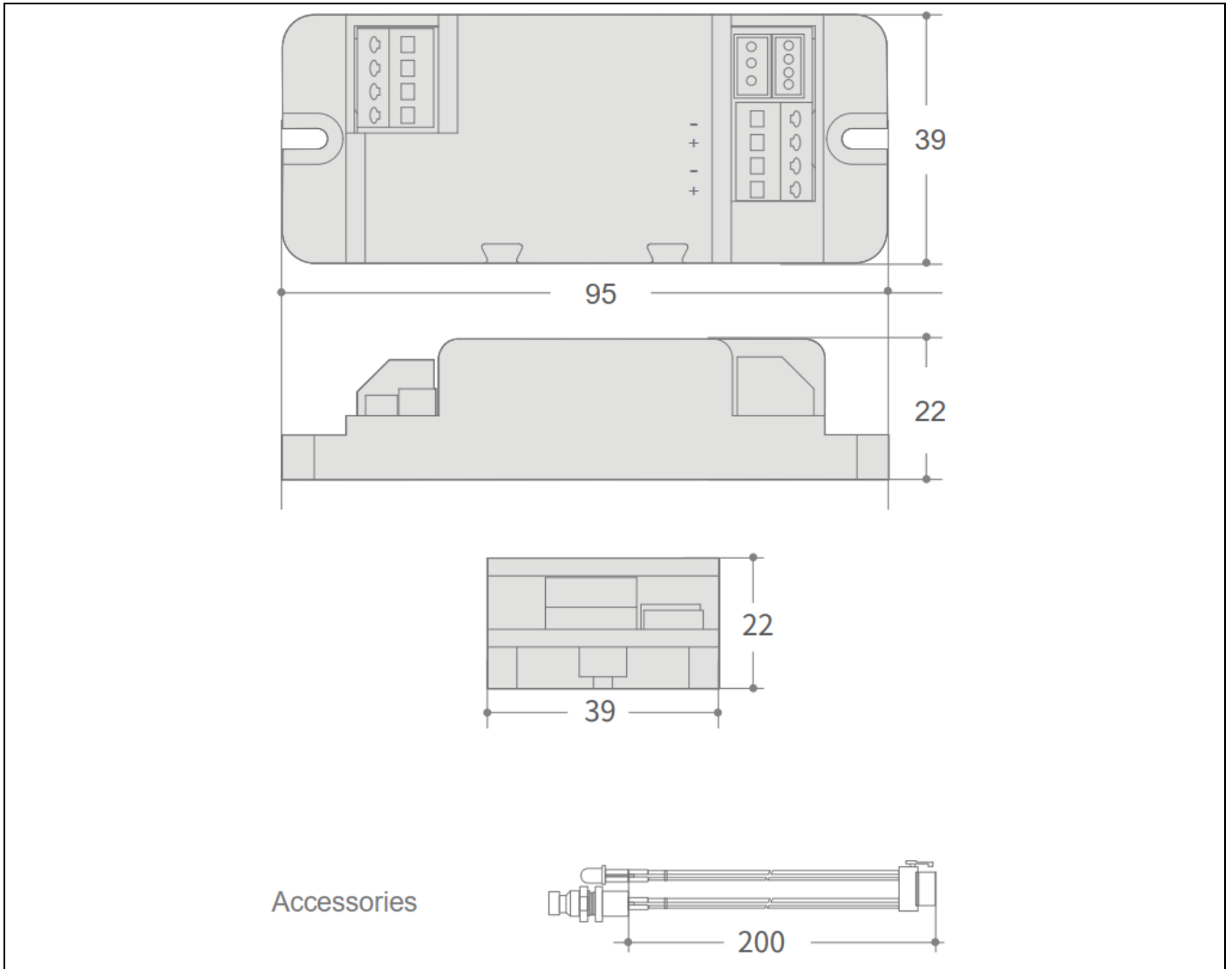
## BATTERY:



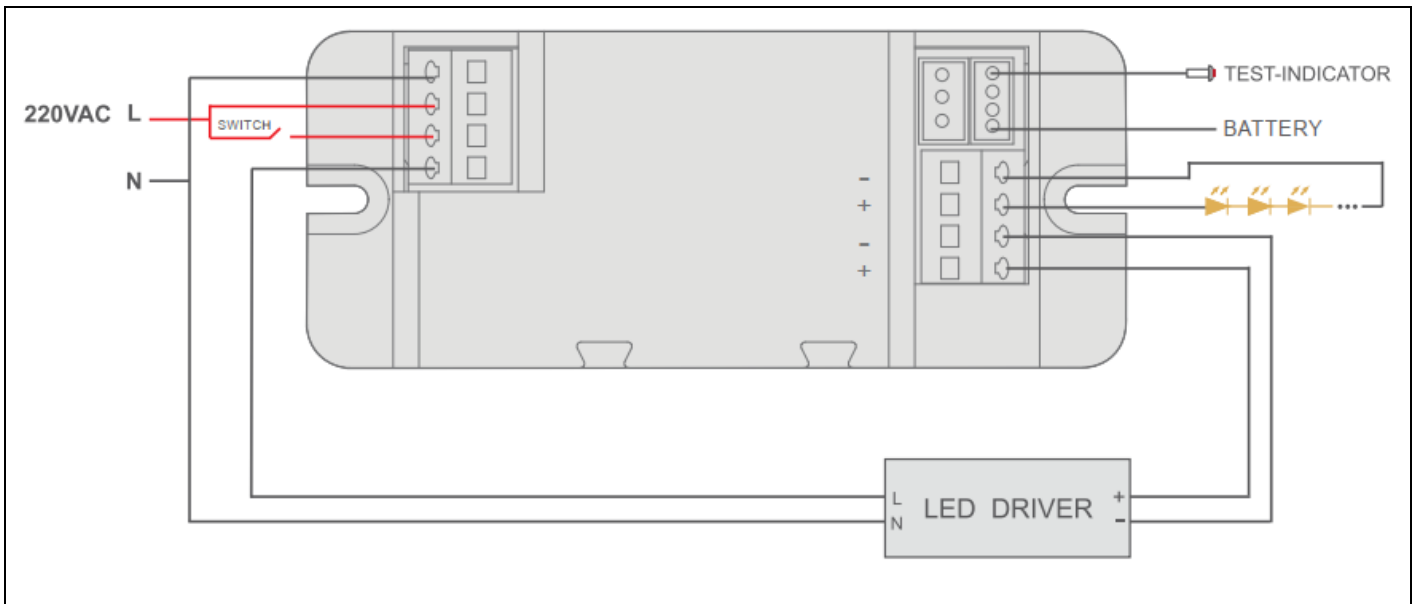
### Additional Benefits of the Lithium Battery Design:

- The high storage energy density has reached 460-600Wh/kg, which is about 6-7 times that of lead-acid batteries.
- Long service life, service life can reach more than 6 years, lithium ferrous phosphate for the positive battery 1C(100%DOD) charge and discharge, there can be 10,000 times of use records.
- With high power bearing capacity, easy to start high strength acceleration.
- The self-discharge rate is very low, which is one of the most prominent advantages of the battery, generally can be less than 1%/ month, less than 1/20 of the nickel-metal hydride battery.






**DIMENSIONS (mm):**



**WIRING DIAGRAM:**



## INDICATOR LIGHT DESCRIPTION:

	Charging - Green light flashes slowly
	Full charged - Green light ON
	Analog Emergency Mode - Green light in breathing mode (On-off Alternation)
	Real Emergency Mode (AC cut off) - Red light ON
	Fault - Red light flashes quickly

## OPERATION:

- After AC power connected, indicator light flashes slowly, battery is in charging.
- When AC main power is in fault or blackout, Emergency power kits will switch to emergency mode automatically, and supply power to the load.
- After AC main power ON, the power kits will resume to AC power supply mode, battery starts charging mode

## MAINTENANCE:

To make sure the normal operation, perform the followed test periodically would be advised:

- Visually inspect the indicator light monthly, it should be green and keep ON after connected to AC main power.
- Switch off the AC main power to perform 30 seconds discharging monthly.
- Perform a fully discharging annually.

## CAUTION:

- The battery should be charged & discharged once every six months (undernormal condition)
- Do not connect the battery to the circuit when it is not in use to prevent battery overdischarge due to self-consumption of the circuit board.
- The storage temperature should range from 0 to 35 ° C and the humidity should be less than 85% to avoid shortening the battery storage time.
- For lithium batteries that are not used for a long time, it is recommended to discharge them at least once every 6 months
- Avoid mechanical shock to the battery
- Avoid putting the battery near the fire or trying to remove it. The electrolyte in the battery is strong alkaline, which will damage the skin and clothes.
- Ensure that the battery polarity+/- are insulated to prevent short circuit

**FUNCTION:**

Function	State
Auto-test Function	When AC main power is in fault or blackout, Emergency power kits will switch to emergency mode automatically, and supply power to the load with a rated emergency power.
A.Initially auto-test setting	When the power kits is connected to the AC main power correctly, it will conduct the initially test. If there is any abnormality, indicator light will flashes quickly and resume to normal status once the abnormality is corrected
Auto-test settings after installation	<p>a)The first automatic monthly test will be conducted within 24 hours , and monthly test will be conducted every 30 days thereafter. If there is a power failure during the course, the timing will be restarted, The simulated emergency time is about 60 seconds per month. When entering the simulated monthly test mode, the device can be smoothly transferred to the emergency mode, and it can be normally transferred to the charging mode after the time is over.</p> <p>b) Annual auto-test is conducted every 52 weeks after the first power-on.The device will be fully charged and discharged every 52 weeks after initial power-on and continuous charging for 24 hours until full charged, and the timing will be restarted if there is any power outage midway.When entering the simulation annually test mode the device can be smoothly transferred to the emergency mode. the green indicator shows breathing -Off Alternation),and the time can be normally transferred to the charging mode the mode, and the battery voltage should not be lower than the over-discharge protection value.(If there is low voltage, it means that the battery is seriously attenuated, and needs to be replaced. At the same time, the indicator shows a red flash signal to remind maintenance personnel).</p>
Manually Test	<p>A. Press the test button twice within 3 seconds to force a 60-second monthly test. After the test is completed, the next (30 days) monthly test will be calculated from the same day.</p> <p>B. Press the test button three times consecutively within 3 seconds to force a 60-minute annual test (Annual test can be performed under full charged). After the test is completed, the next (52 week) annual test will be counted from the same day.</p> <p>During any manual test, hold down the test button for more than 3 seconds to terminate the manual test.</p>