

SPECIFICATION

Product Name:	LED Emergency Driver		
Model No.:	KE027 HE Series		
Issue Date:	April 22, 2025		
CI	JSTOMER APPROVED		



Туре	Model	Updating	Date
A0	KE027 HE Series		2024-05-10
A1	KE027 HE Series	Modify product features	2024-07-25
A2	KE027 HE Series	Modified wiring diagram	2024-09-07
A3	KE027 HE Series	Added test mode switching requirement	2025-01-06
A4	KE027 HE Series	Fix bug	2025-04-22



Specification for LED Emergency Driver KE027 HE Series C.W.

1. Features



- Constant power output LED emergency power supply with a wide output voltage range.
- Input relay switching.
- High safety, high performance, long life LifePO₄ battery.
- With battery management.
- Manual test&automatic test selection.

2. Parameters

	KE027	02AM180HE	03AM180HE	04AM180HE	05AM180HE
	Rated input voltage	220-240Vac 50Hz/60Hz			
	Rated input current	0.06A Max. @230Vac			
Charge Part	Input inrush current	10A(Twidth=100us 50% Ipeak)@230Vac (Cold start at full load)			
	Power factor	≥0.5@230Vac			
	Input power	<4W@230Vac			
	Battery charging current	250mA	250mA	350mA	350mA
	Battery charging time	24 hours Max.			
	Operating mode	Emergency mode			
	Load type	LED			
	Emergency power	2W	2.5W	4W	5W
Emergency Part	Emergency time	3hours			
	Load output current	25-10mA	31-12mA	50-20mA	65-25mA
	Load output voltage	80-200Vdc			
Battery	LifePO₄ (The battery capacity meets the emergency time at 25°C)	6.4V 1.8Ah	6.4V 1.8Ah	6.4V 3.6Ah	6.4V 3.6Ah
	Battery warranty	Warranty 5 year @5~60℃.			
Exception	Surge current	8A			
Driver Input current		3A Max.			
Requirements	Output current	2A Max.			
LED Indication	Charging	ging Green light			
(Manual test)			Green light off		
Emergency	Emergency Manual test Default				
Function Test Auto test		Settable			

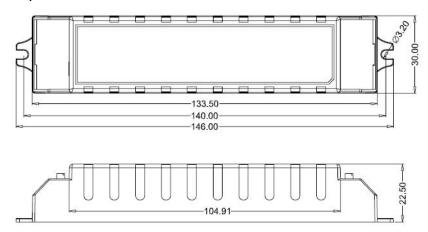


	Fault / test / Status	Reason	Charge Indicator Status	
	Battery fully charged and			
	operational	Standard daily use	solid green	
	Pottory Charging	Initial Charge/Battery Top		
	Battery Charging	Up	Flashing green 1 sec on 1 sec off	
	Auto Test 3 Hours (every 12	Periodic self test		
	months)		Flashing Green 3 sec on 1 sec off	
Auto Testing		D 1 11 151 1		
	Auto Test 5 Min (every 30 days)	Periodic self test	Flashing Green 3 sec on 3 sec off	
			• 0	
	Duration test fault	Automatic test failed	Flashing Red 0.5 sec on 0.5 sec off	
		Not plugged in or		
	LED fault	damaged/faulty	Flashing Red 2 sec on – 2 sec off	
		Not plugged in or		
	Battery Disconnected/Faulty	damaged/faulty	solid red	
	Battery over-charge/deep discharge protection	Yes		
Emergency	Output over-voltage protection	Yes		
protection	Output overload protection	Yes		
	Output short circuit protection	Yes		
	Operating temperature/humidity	0℃+50℃humidity:20%-75%(without condensation)		
Operating	Storage temperature/humidity	-5℃-35℃		
Environment	Case Max. Temp(Tc)	75℃		
	Withstand voltage	3000Vac 5mA 60s (Input "L N" – output "SEC+ SEC-)		
	Safety standard	EN61347-1, 60598-2-22, 61347-2-7, 62034		
Safety	EMC standard	EN55015, EN61000-3-2, EN61000-3-3		
& EMC	Battery standard	UN38.3		
	Environmental protection requirements	Compliant to RoHS		
	Certification	CE		
	Input/output(terminal/wiring) specification	Press terminal, wire diameter: 0.5-0.75mm ²		
	IP rating	IP20		
	Type of protection	Class 2		
	Installation type	Built-in installation		
Others	Installation dimension	146*30*22.5mm		
	Packaging requirement	White box+Instruction manual+clapboard+outer carton(K=A)		
	Weight	75g (driver)		
	Lifespan	5 Year @Ta		

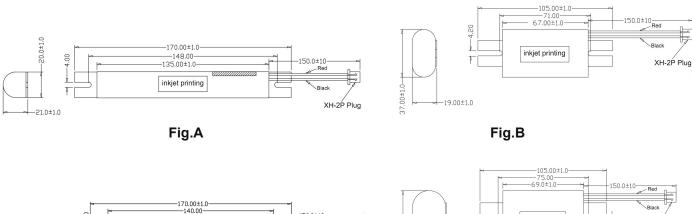
All parameters are tested on the input voltage 230Vac,environment temperature 25°C,unless otherwise specified.



3. Dimension (Unit: mm)



4. Battery Size (Unit: mm)



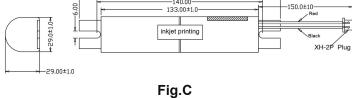


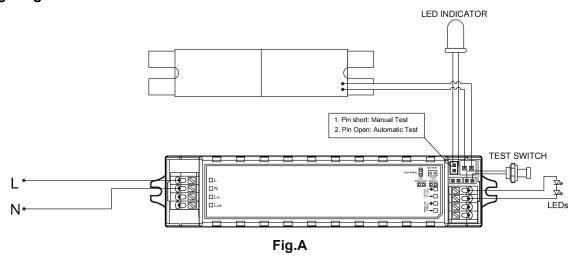
Fig.D

inkjet printing

-28.0±1.0

XH-2P Plug

5. Wiring Diagram





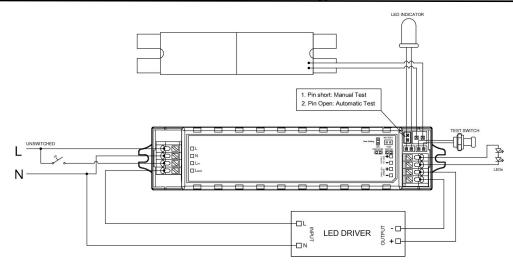


Fig.B

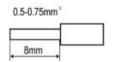
6. Manual and Automatic Test Set

-: Short = : Open

Test Mode Set	J1
Automatic Test	
Manual Test	

7. Wire Preparation





- 1). Solid or Stranded wire type: 0.5 -0.75 mm²
- 2)To access or remove the wires from the terminals, use a screwdriver to push the buttons down

8. Manual Test & Operation Instructions

- 1).Before installation, set Pin short: Manual Test.
- 2). Connect the wire according to wiring diagram.
- 3).L,N power on, Switch on S1. then the load lamp turns on, The emergency driver indicator light will turns green, emergency power supply normal charging. Turn off Switch S1, the load lamp turns off.
- 4). Emergency Simulation: Switch on, the load lamp turns on, press the switch(TEST SWITCH), then switch to emergency mode, the indicator light of emergency driver will be extinguished. Release the switch(TEST SWITCH), then lamp is powered by led driver, the indicator light will turn on.



9. Automatic Test & Operation Instructions

- 1).Before installation, set Pin open: Automatic Test.
- 2). Connect the wire according to wiring diagram. Remove the test switch on the LED Emergency Driver.
- 3).L,N power on, start the clock and periodic self test. To replace the battery, turn off the power supply, Re-time.

10. Battery Application Notice

- 1). The battery should be recharged and discharged semiannually in normal use conditions.
- 2).Do not connect to the circuit when the battery is not use to prevent over-discharge of the battery due to self-consumption of the circuit board.
- 3).Please keep the battery from the heat source when installing and using, and only be allowed to use in certain working temperature range.
- 4). The battery should be stored in a cool and dry environment.
- 5). After long time storage, the battery is cycled every 12 months as required.
- 6).AC power is off, and the clock lasts for 7 days, Power on and re-time. To replace the battery, turn off the power supply, Re-time.