

SPECIFICATION

Product Name:	LED Emergency Driver
Model No.:	KE002 Built-in series new edition
Issue Date:	February 12, 2025
Cl	JSTOMER APPROVED



Model	Updating	Date
KE002 Built-in series LED		
Emergency Driver new	The First Version	2024-05-18
edition		
KE002 Built-in series LED		
Emergency Driver new	Correct the error	2025-02-12
edition		
	KE002 Built-in series LED Emergency Driver new edition KE002 Built-in series LED Emergency Driver new	KE002 Built-in series LED Emergency Driver new edition KE002 Built-in series LED Emergency Driver new Correct the error



Specification for LED Emergency Driver KE002 Built-in series

1. Features



- Constant power output LED emergency power supply with a wide output voltage range;
- Input relay switching.
- With multiple protection functions: battery overcharge, over discharge protection, output short circuit protection.protection.

2. Parameters

2. Parameters				
Charge Part	KE002	01M / 01A180KB1	02M / 02A180KB	03M / 03A180KB3
	Rated input voltage	220-240Vac 50Hz/60Hz		
	Rated input current	0.06A Max. @230Vac		
	Input inrush current	30A(twidth=100uS 50% Ipeak)@230Vac (Cold start at full		
	input illiusii cuireit	load)		
	Power factor	≥0.5@230Vac		
	Input power	<4W		
	Battery charging current (Max)	240mA		
	Battery charging time	24 hours Max.		
	Operating mode	Emergency mode		
	Load type	LED		
Emergency Dort	Emergency power	1W	2W	3W
Emergency Part	Emergency time	3hours		
	Load output current	50-15mA	100-30mA	150-50mA
	Load output voltage	20-60VDC		
Battery	Li-ion (The battery capacity meets the emergency time at 25°C)	3.7V 2000mAh	3.7V 2600mAh	
	Battery warranty	Warranty 3 year, @25℃.		
Exception	Surge current	8A		
Driver	Input current	3A Max.		
Requirements	Output current	2A		
LED Indication	Charging	Green light		
	Fault	Green light off		
Emergency	Manual test	Yes		
Function Test	Auto test	KE002-01A180KB1 / KE002-02A180KB / KE002-03A180KB3		

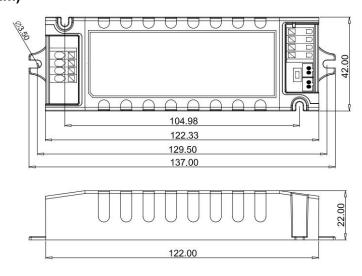


		ek Technology Co.,Ltd.		
-	Fault / test / Status	Reason	Charge Indicator Status	
	Battery fully charged and	Ctondard daller		
	operational	Standard daily use	solid green	
	Battery Charging	Initial Charge/Battery Top		
		Up	Flashing green 1 sec on 1 sec off	
	Auto Test 3 Hours (every 12 months)	Periodic self test		
			Flashing Green 3 sec on 1 sec off	
Auto Testing	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	
			Trashing fled 0.5 See 011 0.5 See 011	
	LED fault	Not plugged in or damaged/faulty	Flashing Red 2 sec on – 2 sec off	
	Pottory Discopposted/Foulty	Not plugged in or	Trasting New 2 Sec Off 2 Sec Off	
	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°C+50°C humidity:20%-75%(without condensation)		
Operating Environment	Storage temperature/humidity	-5℃-35℃		
Liviloilileit	Case Max. Temp(Tc)	75℃		
	Withstand voltage	3000Vac 5mA 60s (Input "L N" – output "SEC+ SEC-)		
	Safety standard	EN61347-1, EN61347-2-7		
Safety	EMC standard	EN55015, EN61000-3-2, EN61000-3-3		
& EMC	Battery standard	UN38.3		
-	Environmental protection requirements	Compliant to RoHS		
	Certification	CE		
Others	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		
	Installation dimension	137*42*22mm		
	Packaging requirement	White box+Instruction manual+clapboard+outer carton(K=A)		
	Weight :Emergency Power Supply	110g		

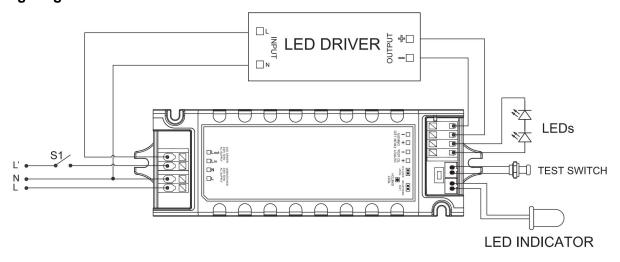


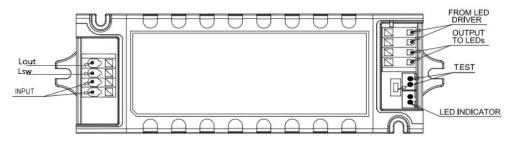
Others		5 Year @Ta (Battery not included)	
Notes:			
All parameters are tested on the input voltage 230Vac,environment temperature 25°C,unless otherwise specified.			

3. Dimension (Unit: mm)



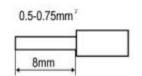
4. Wiring Diagram





5. Wire Preparation





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



6. Manual Test & Operation Instructions

- 1). Connect the wire according to wiring diagram.
- 2).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.
- 3). 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.

7. Automatic Test & Operation Instructions

- 1). Connect the wire according to wiring diagram.
- 2).AC power is off, and the clock lasts for 15 days, Power on and re-time.
- 3). To replace the battery, turn off the power supply, Re-time.

8. 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.