

SPECIFICATION

Product Name:	LED Emergency Driver
Model No.:	KE036 HB Series
Issue Date:	April 29, 2025
Cl	JSTOMER APPROVED



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Туре	Model	Updating	Date
A0	KE036 HB Series	The First Version	2024-10-25
A1	KE036 HB Series	Fix Bug	2025-04-29



Specification for LED Emergency Driver KE036 HB Series C.W.

1. Features



- Constant power output LED emergency power supply with a wide output voltage range.
- Input relay switching.
- LiFePO4 batteries with battery management.
- Deep discharge protection.
- Manual test & automatic test selection.

2. Parameters

	KE036-	02AM180HB	02AM180HB1	03AM180HB
	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)		С
	Power factor	≥0.5@230Vac		
	Input power	<4W@230Vac		
	Battery charging current	250mA Max.		
	Battery charging time	24 hours Max.		
	Operating mode	Emergency mode		
	Load type	LED		
Consumos Dout	Emergency power	2W 2.5W		2.5W
Emergency Part	Emergency time	3 hours		
	Load output current	200-30mA	40-9mA	250-40mA
	Load output voltage	10-60Vdc	50-220Vdc	10-60Vdc
Battery	LifePO₄ (The battery capacity meets the emergency time at 25°C)	6.4V 1800mAh		
	Battery warranty	Warranty 5 year @25℃.		
Exception	Surge current	8A		
Driver	Input current	3A Max.		
Requirements	Requirements Output current 2A Max.			
LED Indication	Charging	Green light		
(Manual test)	Fault	Green light off		
Emergency Manual test		Default		
Function Test	Auto test	Settable		



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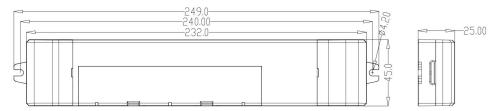
	Silenzilen werryt	ek rechnology Co.,Ltd.			
	Fault / test / Status	Reason	Charge Indicator Status		
	Battery fully charged and	Standard daily use			
	operational	Standard daily use	solid green		
	Pottory Charging	Initial Charge/Battery Top			
	Battery Charging	Up	Flashing green 1 sec on 1 sec off		
	Auto Test 3 Hours (every 12 months)	Daviadia adfaat			
		Periodic self test	Flashing Green 3 sec on 1 sec off		
Auto Testing		D. C. F K			
	Auto Test 5 Min (every 30 days)	Periodic self test	Flashing Green 3 sec on 3 sec off		
	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		
	2 2	Not plugged in or			
	Battery Disconnected/Faulty	damaged/faulty	solid red		
	over-charge/deep discharge protection	Yes			
Abnormal	Output over-voltage protection	Yes			
protection	Output overload protection	Yes			
	Output short circuit protection	Yes			
0	Operating temperature/humidity	0℃+50℃humidity:20%-75%(without condensation)			
Operating Environment	Storage temperature/humidity	-5℃-35℃			
LIMIOIIIIEII	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(terminal/wiring)specification	Press terminal, wire diameter	er: 0.75-2.5mm ²		
	output(terminal/wiring)specification	Press terminal, wire diameter: 0.75-1.5mm ²			
	IP rating	IP20			
	Type of protection	Class II			
Others	Installation type	Independent installation			
	Dimension	232*45*25mm			
	Packaging requirement	White box+Instruction manual+clapboard+outer carton(K=A)			
	Weight	208±5g			
	Lifespan	5 Year @Ta			
Notes:					

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

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3. Dimension (Unit: mm)



4. Wiring Diagram

KE036-02AM180HB1

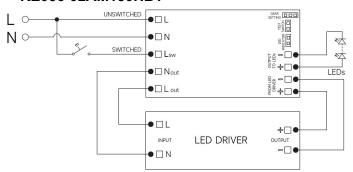
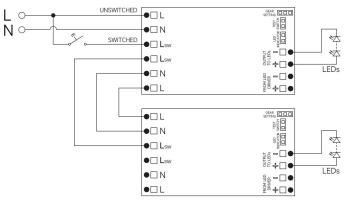




Fig.A: With LED driver and LED module

Fig.B: With LED module

KE036-02AM180HB, KE036-03AM180HB



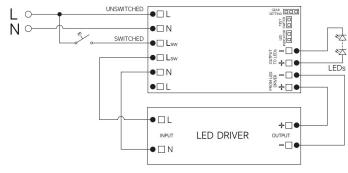


Fig.C: Loop in&out with LED module

Fig.D: With LED driver and LED module

5. Manual and Automatic Test Set

Test Mode Set	J1
Automatic Test	
Manual Test	



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6. 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.

7. 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.

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 6 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.