

# SP-EM40-AC-C

Self-Diagnostic Auto-Dimming Emergency IP65 Inverter

**Spitzer**  
LIGHTING

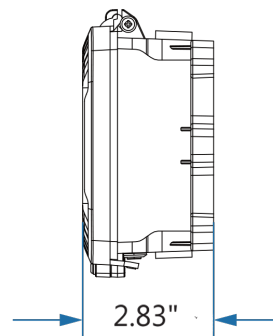
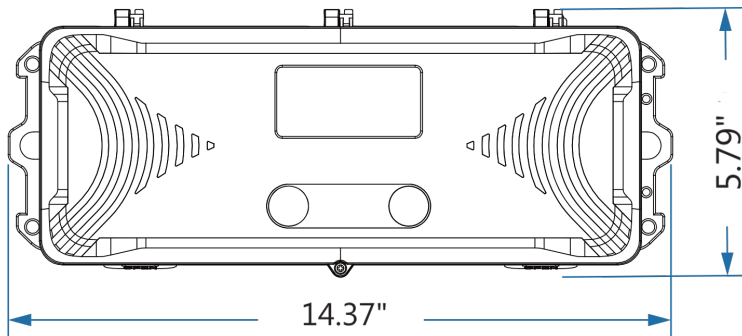


## APPLICATIONS

- UL listed for wet locations
- Suit for 40-300w lamp with 0-10v dimming function
- Suit for 10-40w below lamp with or without 0-10v dimming function
- AC120V sine wave output
- Comes with manual test switch, self-diagnostic test mode (default) and optional remote test
- Built-in low power ac relay to control normal led driver operation
- Used with lithium iron phosphate battery
- Over -discharging protection
- Rest mode
- 90 minutes emergency time
- Waterproof and independent battery pack that can be easily replaced by hand
- Battery pack with built in charging and discharging protection board
- Junction box is included
- Ambient range ta 0...60°C
- Initial functional self-test
- Product status screen
- IP65
- 5 year warranty



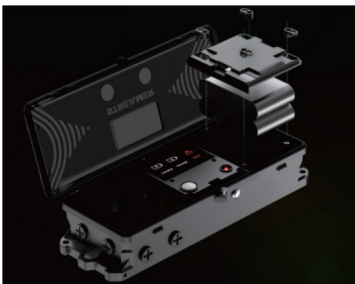
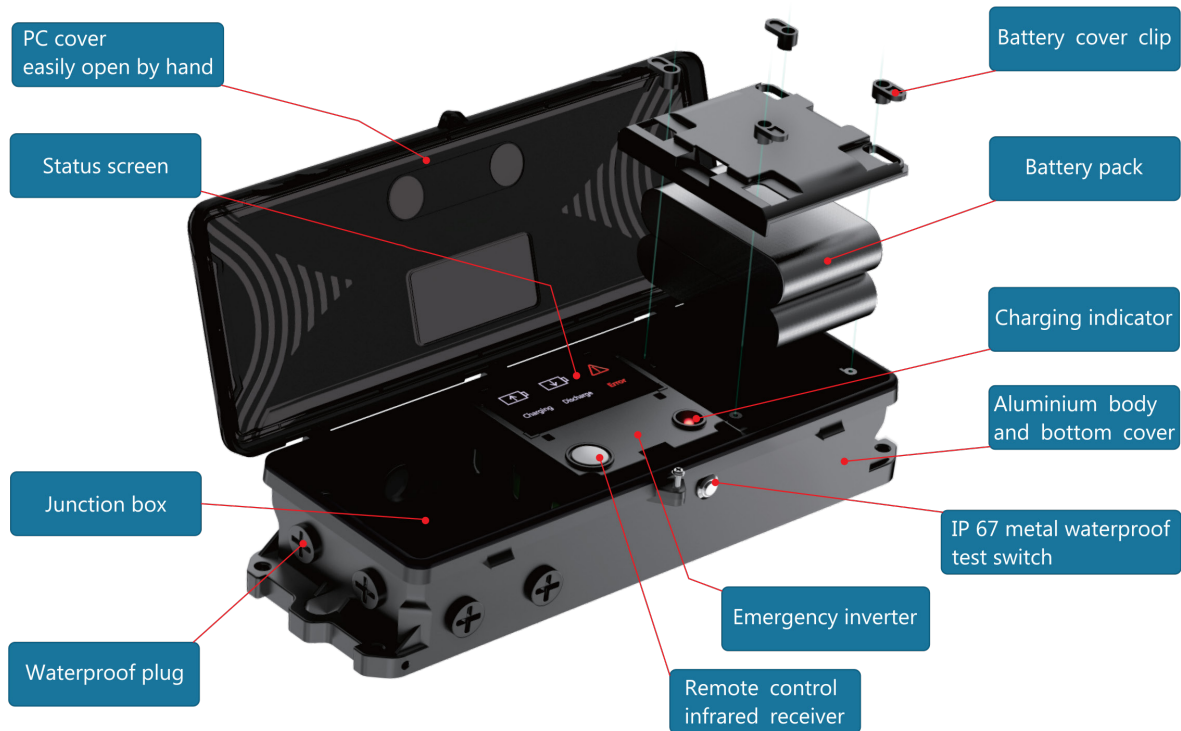
## DIMENSIONS



MODEL NO.	RATED INPUT	RATED OUTPUT	EMERGENCY TIME	BATTERY PACK
SP-EM40-AC-C	AC100-347V, 50/60Hz, 150mA 8.5W max P.F: 0.6@100V, 0.5@347V	AC 120V sine wave 40W max	>90 minutes	LiFePO4 12.8V 6.Ah, 81.92Wh HT IFR26650x8 pcs, 4s2p

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### → BATTERY PACK

- Lithium iron phosphate battery
- Easily replaced by hand



### → LED INDICATOR

Red Stable: Charging Mode  
Charging Fully  
OFF: Emergency Mode

### → TEST SWITCH

Press switch to enter emergency mode, release to recover charging mode

### → INFRARED REMOTE CONTROL RECEIVER

Max. receiving distance is 12 meters (straight line)



### → SCREEN SHOWS

Back lit status screen shows three status of emergency pack:

*charging*  
*discharging*  
*faulty mode*

STAUS	COMMENT
Charging	AC Mode
Discharging	DV Mode
Failure	Open circuit/ Short circuit led failure, no battery (emergency mode)

### → REST MODE

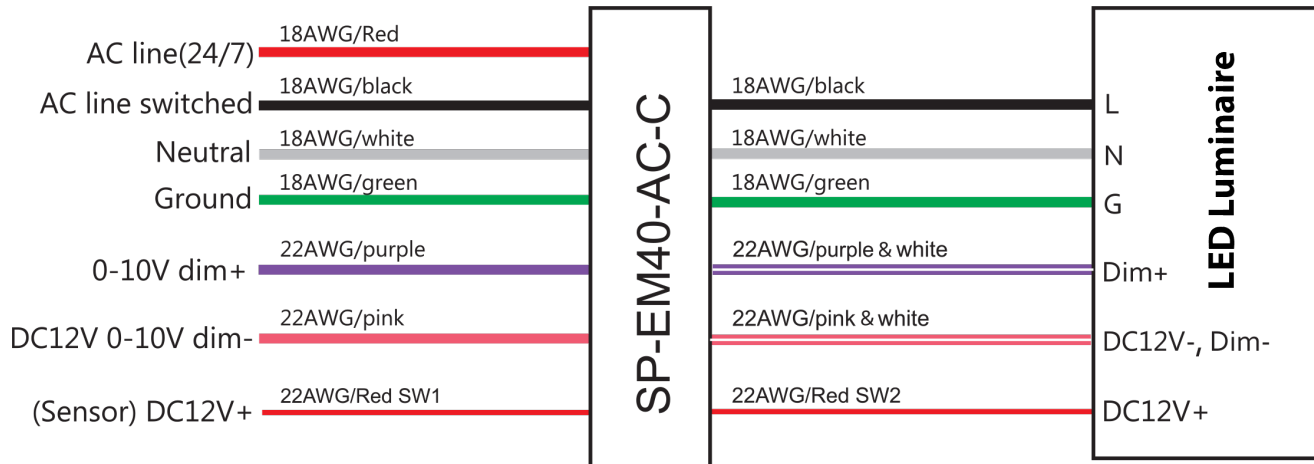
Rest mode can ensure battery long term storage, leakage current is very low in rest mode.

- Press and hold the test switch for over 3 seconds in the emergency mode to enter into rest mode.
- In rest mode, the battery is completely disconnected from the inverter, and the small leakage current can make its storage time longer.

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## WIRING SCHEMATIC DIAGRAM



\* SW1, SW2 Operation

In AC normal mode, Sw1 connects with Sw2.

in DC emergency mode, Sw1 disconnects with Sw2, no output from Sw1.

## INITIAL FUNCTIONAL SELF-TEST

### DESCRIPTION

Emergency pack will make an initial functional self-test automatically

Checking points as below:

- Compatibility with LED luminaire
- LED luminaire starting current
- LED luminaire starting time
- Dimming starting voltage
- Dimming slope

After passing the test, emergency pack goes to operate normally. Faulty mode shows on the status screen if it doesn't pass the test. It will never start this test again afterward, otherwise it goes into rest mode or battery is disconnected.

### CANCEL FAULTY MODE

- End discharge
- Disconnect battery in emergency mode
- It will never start this test again afterward, otherwise it goes into rest mode or battery is disconnected.

## INITIAL FUNCTIONAL SELF-TEST

- Warranty 5 years, Battery pack 5 years
- Except for the following circumstances
  1. Improper installation or operation
  2. Misuse
  3. Abuse
  4. Unauthorized or improper repair alteration
  5. Accident or negligence in use, storage, transportation
  6. Any natural acts