SYNERGY 21

257600

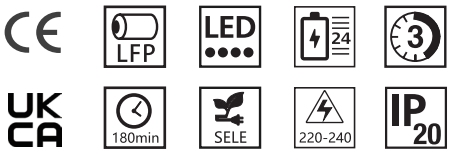
EL-T

Applications

- Use in dry environment.
- LiFePO4 battery pack.
- For use on a wide range of LED fittings to convert them from standard to emergency fitting.
- LED fitting would be maintained emergency LED fitting if standard (main powered) driver, emergency lighting kit and battery are all retained in the circuit.
  LED fitting would be non-maintained emergency LED fitting if only emergency lighting kit. and battery are retained in the circuit.
- Additional Relay that can control standard LED driver.
- Deep discharge protection.
- Connector between emergency kit and battery has the function of polarity reversal protection.
- Ambient range ta 0....50℃
- IP20 protection, relies on end-product enclosure for protection against accidental contact live parts.
- Not intended for use in luminaries for high-risk task area lighting.

Ordering data

Model No.	E.M Power	Duration	Battery Pack
257600	DC30-200V 2W constant power	3 Hours	LiFePO4 6.4V 2Ah 6.4Wh



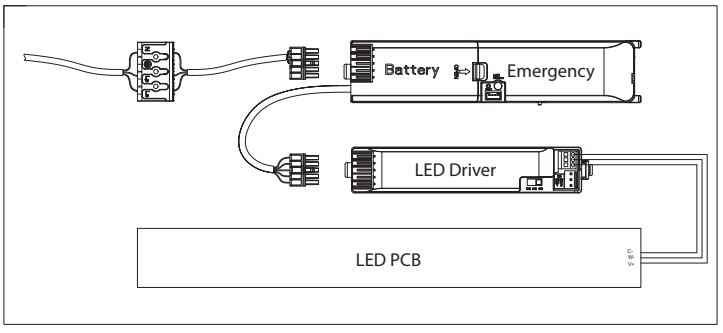
PRODUCT FEATURES

- Quick Connection Design
- Lithium Battery Technology
- Battery With low&high temperature protection
- 3 Hours Emergency Duration
- Contained indicator & testing button gear
- 5 Year Guarantee
- Suitable For Use With Bulkeads & Batten
- Easy for replace battery
- Self-Test & manual selectable by dip swtich

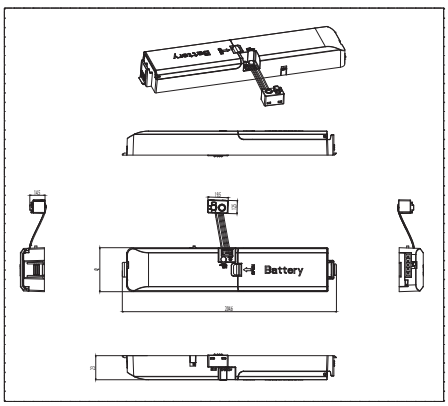
Technical data

Item	Data
Rated input voltage	220-240VAC,50/60Hz
Input current	0.05A
Iutput power	3W
Terminal L-in / L-out (LED driver input constant)	AC 2A Max
Output voltage range	DC50-200V,Uout<200V
Max output current	10-67mA
Output power	2W
Battery cells voltage/capacity	LiFePO4 3.2V 4000mA,12.8Wh
Recharge current	250mA Max
Recharge time	19Hours
Discharge time	180 min
Lumen factor	140lm/W
Max. casing temperature tc	75℃

Wiring diagram



Dimensions



Self-test

The emergency kits carry out self-tests automatically to ensure its functionality.
The self-test includes 3 types of tests:

Initial test

-As soon as mains supply is connected, the emergency kit will carry out a 3-seconds functional test automatically.
- In case of a failure, the LED will turn permanent red. Otherwise, the charge mode will start.

Functional test

- Refers to charging, discharging and the functioning of load.
- Carry out for 3 seconds automatically every 30 calendar days.

Duration test

- Refers to the test of batteries capacity.
- Carry out every 180 calendar days.

Rest mode

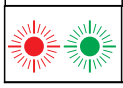
Rest mode can be initiated during emergency mode by pressing test switch longer than 1 seconds.
The rest mode will be exited automatically after reconnect AC mains.

Please note

If mains supply is off during self-test period, emergency conversion module would terminate self-test immediately and go into emergency mode.

Self-test is under the regulation of EN 62034.

Explanation of LED indicator

State	Color	LED indication	Status	Comment
	Green	Slow flashing green (3 sec on, 1 sec off)	Charging Mode	AC mode
	Green	Permanent green	Fully Charged	AC mode
	Green	Fast flashing green (0.1 sec on, 0.1 sec off)	Function test underway	
	Green	Slow flashing green (1 sec on, 1 sec off)	Duration test underway	
	Red	Permanent red	Battery failure	Battery failed the duration test or function test / No battery
	Red	Slow flashing red (1 sec on, 1 sec off)	Duration failure	Duration time less than 3hours
	Red	Fast flashing red (0.1 sec on, 0.1 sec off)	Load failure	Open circuit/ Short circuit Led failure (emergency mode)
	**Red Green**	Fast flashing red and green (0.1 sec on, 1sec off)	Rest timer	The timer data for the monthly test function and the semi-annual test function are reset.

Test switch

The test button is a open switch , if you press it , it connects, and then you release it, it cuts off automatically.

1, In DC mode, short press (more than 1 sec) testing button, then entered the rest mode.
2, In AC mode, short press (more than 1 sec) testing button, the timer data for the monthly test function and the semi-annual test function are reset.
3, In AC mode, long press (more than 10 sec) testging button,enforce the duration test function.