



LED Emergency converter

Model: EC25 Basic self-test



Type	Mode *Constant power	Battery	Duration	Qty /Carton
EC25-2031050Li	DC 10-50V 2W	LiFePO4 6.4V1.5AH	3 Hours	20pcs
EC25-3031050Li	DC 10-50V 3W	LiFePO4 6.4V2.2AH	3 Hours	20pcs

1. Parameters

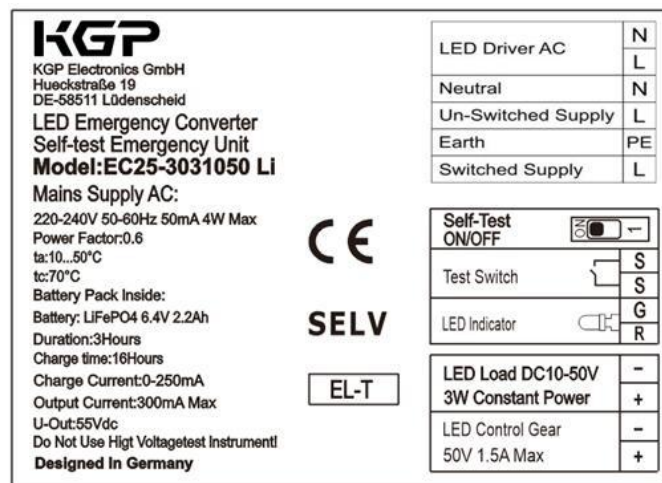
category	Item	Technical Norm
Features	Output Type	Constant power output
	IP Grade	IP20 (relies on end-product enclosure for protection against accidental contact live parts.)
	Insulation Class	Class II
Input	Input Rated Voltage	220-240VAC
	Frequency	50/60Hz
	AC Input Current	50mA
	AC Input Power Rated	5W max.
	Power Factor	>0.6
	Charge time	≥24 hours
	Charge mode	Trickle re-charging on battery
	No-load Power Consumption	≤2W @230VAC
	Inrush Current	≤36A/420us (230VAC, Full-load)
Output	Output power	2-3W Constant power
	Output voltage	DC10-50V
	Battery capacity(LiFePO4)	1500 mAh /2200mAh
	Battery Charging Current	0-250mA
	Rated duration	>3 hours
	Lumen Factor	120lm/Wattage
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	I/P to O/P , 3KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250 μ A
Environment	Ta/Operation Temperature	0....+50°C
	Ts/Storage Temperature	-25....+85°C
	Tc/Enclosure Temperature	70°C max.

	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.5-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	212X73X28mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017, EN62493:2015,IEC 61347-1,IEC 61347-2-7, AS/NZS 60598-2-22,AS/NZS2293.3
	EMC Standards	EN55015 EN62034
	Surge	L-N/1KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50,000h @50°C (Ta) / @70°C (Tc)
	Battery pack	IFR18650MUB 3.2V 1500mAh battery cells 2S2P 6.4V 2200mAh 14.08wh 2S1P 6.4V 1500mAh 9.6wh
	Warranty	3years (Except for the following circumstance :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)

Remark

- To guarantee the rated discharge time,please charge the battery for more than 24 hours.Please ensure that the voltage is 80% higher than the rated voltage,less than 110% of the highest rated voltage.
- Charge and discharge cycle needs to be done at least once every three months,and the continuous charging time can not exceed 3 months.

2. Label (For example)



3. Initial Test

3.1 Initial Test

Connect led load, emergency module, battery and led driver, then connect mains supply, this emergency conversion module will automatically start to do a initial test, to check led load, battery, led driver and emergency module itself working well or not. If not, led indicator would be red flash. If everything goes well, it then goes into charge mode.

3.2 Functional Test

Functional tests are carried out for 10 seconds automatically every 30 calendar days.

3.3 Duration test

Emergency conversion module will automatically make a full duration test every 180 calendar days to check capacity of battery.

3.4 Timer reset functionality






The timer for function and duration test can be set to a particular time of the day by cycling the un-switched line supply 3 times within 1 minute.

3.5 Rest mode

Rest mode can be initiated during emergency mode by pressing test switch longer than 3 seconds.

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

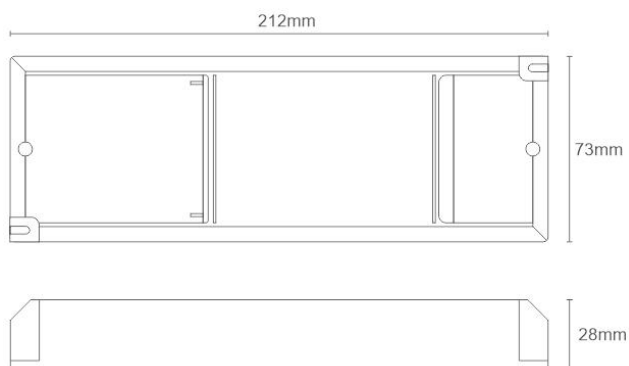
4. LED indicator

-  Green fast flash(1second on, 1 second off), charging mode
-  Green slow flash(1 second on, 6 second off), self test underway, including function test and duration test
-  Green stable: battery fully charged
-  Red flash, failure(including load failure, charging failure, battery failure)
-  Green and red off, DC mode (battery operation, emergency mode)

5. Install

- Installed on the back of the panel requires safety and fixation.
- Only professional people (e.g. electrical Engineer) can wire it.
- Please confirm that the electrical parameters of this product match with the luminaire.
- Please power off mains supply before installation, and confirm the wiring is correct, then connect the battery, the last step is to turn on main supply.

6. Dimension (Unit: mm)



7. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
340*310*305	20 PCS	0.455 kg	9.1kg	9.6kg

8. Wiring Diagram

Wiring Schematic Diagram

