

Product Features

- 1, Constant current output
- 2, Used with LiFePO4 battery, The battery is supplied separately depending on the operating time like in Table with Emergency Characteristics.
- 3, High Quality of light
- 4, High Reliability
- 5, Low Output Current Ripple
- 6, Isolated
- 7, Internal usage
- 8, Emergency power: 3W
- 9, Input voltage 380Vac protection

1) Compliances and Approvals

Approvals	CE EAC
Built-in/independent	Built in
Ingress protection	IP20
Suitable for fixture of protection Class	Class I
Output Safety Level	Isolated
Environmental	Indoor
Features	Fixed

2) Electric Input Characteristics

	Symbol	Remarks	Min.	Typical	Max.	Unit
Input Voltage						
Rated mains voltage	Vin	Nominal range	220	-	240	Vac
Mains voltage range	Vin.op	operational	195	-	264	Vac
Mains frequency nominal	fn	Nominal range	50		60	Hz
Rated mains voltage	Vin	Nominal range		NA		Vdc
Starting time		@230Vac, full load			500	ms
Input Current						
Input current	Iin	@230Vac, full load		0.23		A
Input inrush current		@264Vac, 50% width		16.3A,166us		A, us
Power Factor	PF	@230Vac, full load	0.95			
Total Harmonic distortion	THD	@230Vac, full load			10	%
System Efficiency	η	@230Vac, full load,charging		85		%
Input Power						
Input Power	Pin	@230Vac, full load			45	W
Input Power@ open load		rated input voltage,charging			3.1	W
Input Power@ standby		rated input voltage		NA		

3) Electric Output Characteristics

	Symbol	Remarks	Min.	Typical	Max.	Unit
Output Voltage						
Output voltage range	Vo	measured at end of wire	65		115	Vdc
Output voltage @no load	Vo.max	open load		160		Vdc
Output Current						
Output Current	Io			350		mA
Output Current tolerance			-5		5	%
Current Ripple		@230Vac (Imax-Imin)/(Imax+Imin)		1		%
Output Power						
Output Power	Po	output performance power			40	W
Isolation						
In-Out		3000Vac. for 1min			10	mA

4) Emergency Characteristics

	Symbol	Remarks	Min.	Typical	Max.	Unit
Emergency Power		Battery fully charged		3		W
Recharge Time				24		Hours
Emergency Periods and battery		@LiFePO4 18650 6.4V 1.5Ah	120			Min
Emergency Periods and battery		@LiFePO4 18650 6.4V 2.0Ah	180			Min
Self-testing				With		

5) Robustness	Symbol	Remarks	Min.	Typical	Max.	Unit
General						
Electric strength	Input-Output	50Hz/60Hz and be applied for 1 min		3000		Vrms
	Input-GND			1480		Vrms
Insulation Resistance Test		500Vd.c. for 1min, For SELV part is 100 Vd.c.	2			MΩ
Reliability						
Rated Life@Tc.max		10% failure			50K	Hrs
Rated Life@Tc.life		10% failure			100K	Hrs
Surge	L-N			1		kV
Surge	L/N-PE			2		kV
Environment Operation						
Ambient temperature	Ta		0		45	℃
Maximum Tcase	Tc.max				85	℃
Tc life	Tc.life				75	℃
Operation Humidity	H.op		10		75	%
Environment Storage						
Storage temperature	T.st		-10		45	℃
Storage Humidity	Hst		10		75	%
Abnormal Condition						
Input Over Voltage		Protected, no damage to driver ^①		380		Vac
Output Short Circuit		Protected, no damage to driver ^②		With		
Output Open load		Output voltage limited to Vo.max ^③		150		Vdc
Too High Ambient Temperature		Protected by built-in thermal protection in controller IC ^④		With		
Input Over Power		Input power should be limited and no damage to driver ^⑤			45	W

① If the LED driver connects to Input Voltage 380Vac, then the protection Turn On and the Led driver is switched off until its connect to Input voltage 220-240Vac.

In this protection mode, the led driver does not blink and can be not damage more than 48 hours

② Auto Recovery

③ Auto Recovery

④ The output current decreases

⑤ There is risk to damage the LED driver or decreases the life time.

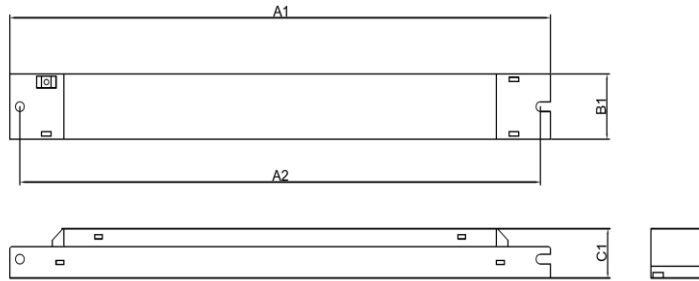
6) Warranty

- Warranty 5 years

- 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 destroy
- 7) Exceed the specifiaction as per the product datasheet
- 8) The battery needs to be replaced every 12 months, the Customer must install a battery purchased from OSSDAT .

7) Mechanical properties	Symbol	Remarks					Unit
Dimensions			L	W	H	M	
			280(A1)	30.5(B1)	23(C1)	269.5(A2)	mm
Housing Material			Metal				



8) Physical properties	Symbol	Remarks	Unit
Weight		356	gram
Qty to Carton		25	pcs
Carton Size:		40*25.5*20	cm
G.W:		9.5	kgs
Potting Raw materials		without	
Printing		printing can be changed by customer's email confirmation	

size:222*28mm

INPUT			tc: test point 	<table><tr><th>U_{in},Vac</th><th>F_n,Hz</th><th>P_{in},W</th><th>I_{in},A</th><th>PF</th><th>U_{out},Vdc</th><th>U_{max},Vdc</th><th>I_{out},mA</th><th>T_a,°C</th><th>T_c,°C</th></tr><tr><td>220-240</td><td>50/60</td><td>45</td><td>0.23</td><td>0.95</td><td>65-115</td><td>160</td><td>350</td><td>0...45</td><td>85</td></tr></table>										U _{in} ,Vac	F _n ,Hz	P _{in} ,W	I _{in} ,A	PF	U _{out} ,Vdc	U _{max} ,Vdc	I _{out} ,mA	T _a ,°C	T _c ,°C	220-240	50/60	45	0.23	0.95	65-115	160	350	0...45	85	<table><tr><td>LED Indicator</td><td>+</td></tr><tr><td>Test Switch</td><td>-</td></tr></table>		LED Indicator	+	Test Switch	-
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H	Neutral	Emergency Power:3W LiFePO4 6.4V 1.5Ah - 120min duration LiFePO4 6.4V 2.0Ah - 180min duration The battery is supplied separately										<table><tr><td>OUTPUT</td><td>+</td></tr></table>		OUTPUT	+																								
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LS	Switched Supply	PL-HMEM-040WDCC350-380V-000M		LED Emergency power supply								Made in China NingBo Luxdator Electrical Co., Ltd.																											
L	Un-Switched Supply																																						

PL-HMEM-040WDCC350-380V-000M
LED Emergency power supply

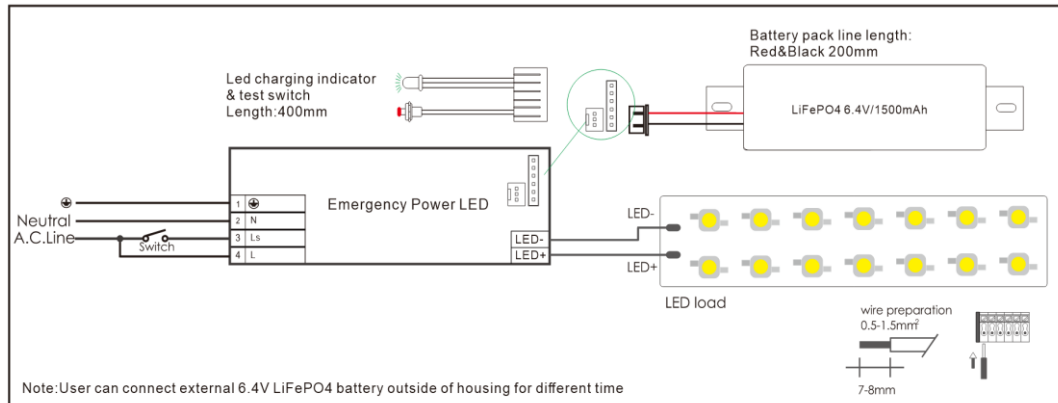
Emergency Power:3W
LiFePO4 6.4V 1.5Ah - 120min duration
LiFePO4 6.4V 2.0Ah - 180min duration
The battery is supplied separately



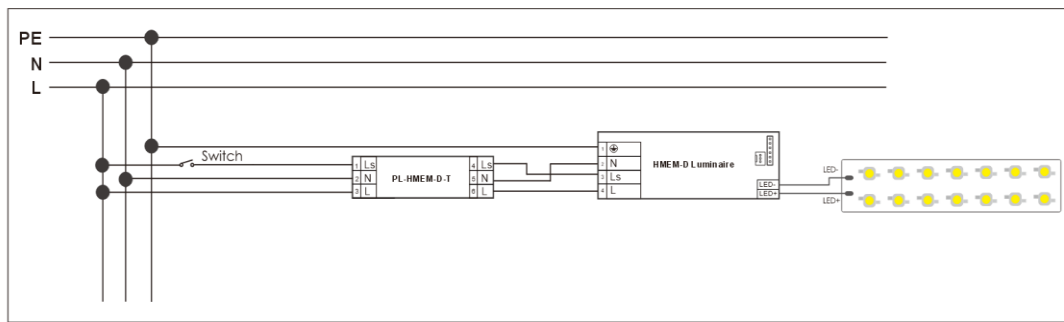
9-10mm 0.5-0.75mm Cable
Made in China
NingBo Luxdator Electrical Co., Ltd.

Connection	Signal	Cable Description	Remark
Input	PE	0.5-0.75mm ²	grey, push-in terminal
	N	0.5-0.75mm ²	grey, push-in terminal
	LS	0.5-0.75mm ²	grey, push-in terminal
	L	0.5-0.75mm ²	grey, push-in terminal
Output	-	0.5-0.75mm ²	black, push-in terminal
	+	0.5-0.75mm ²	red, push-in terminal
Connection Marking	Yes		

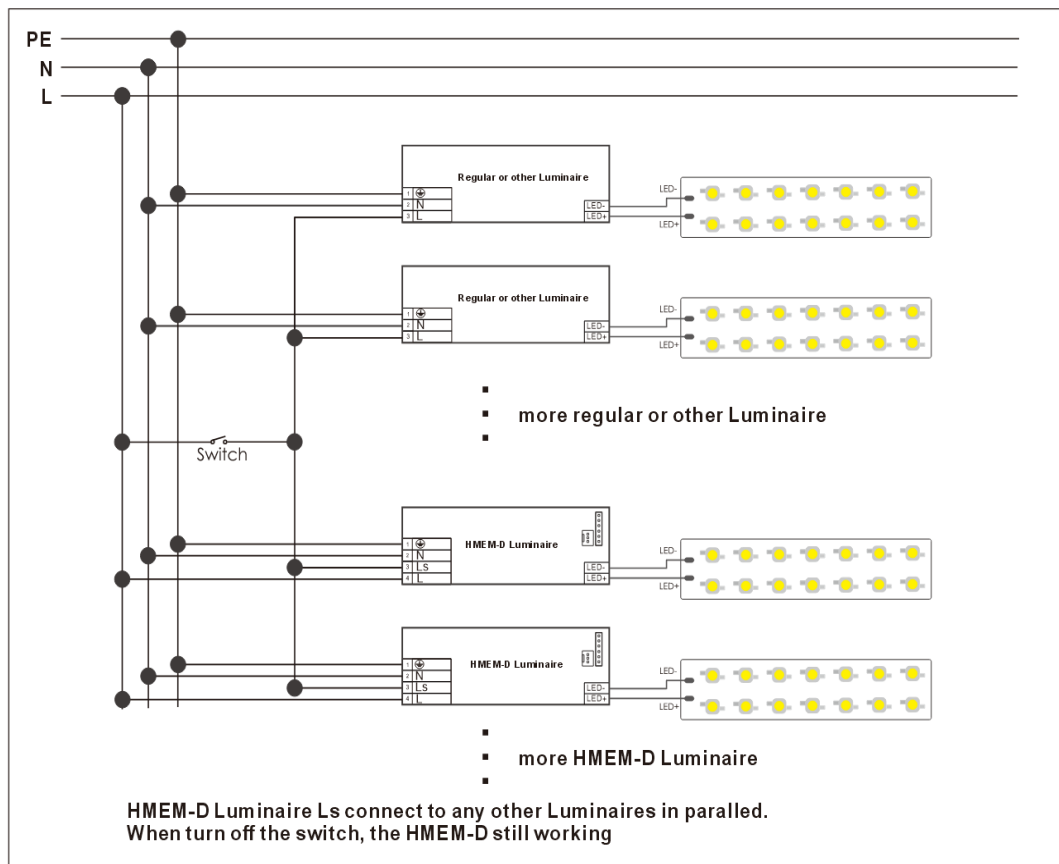
Connection Method



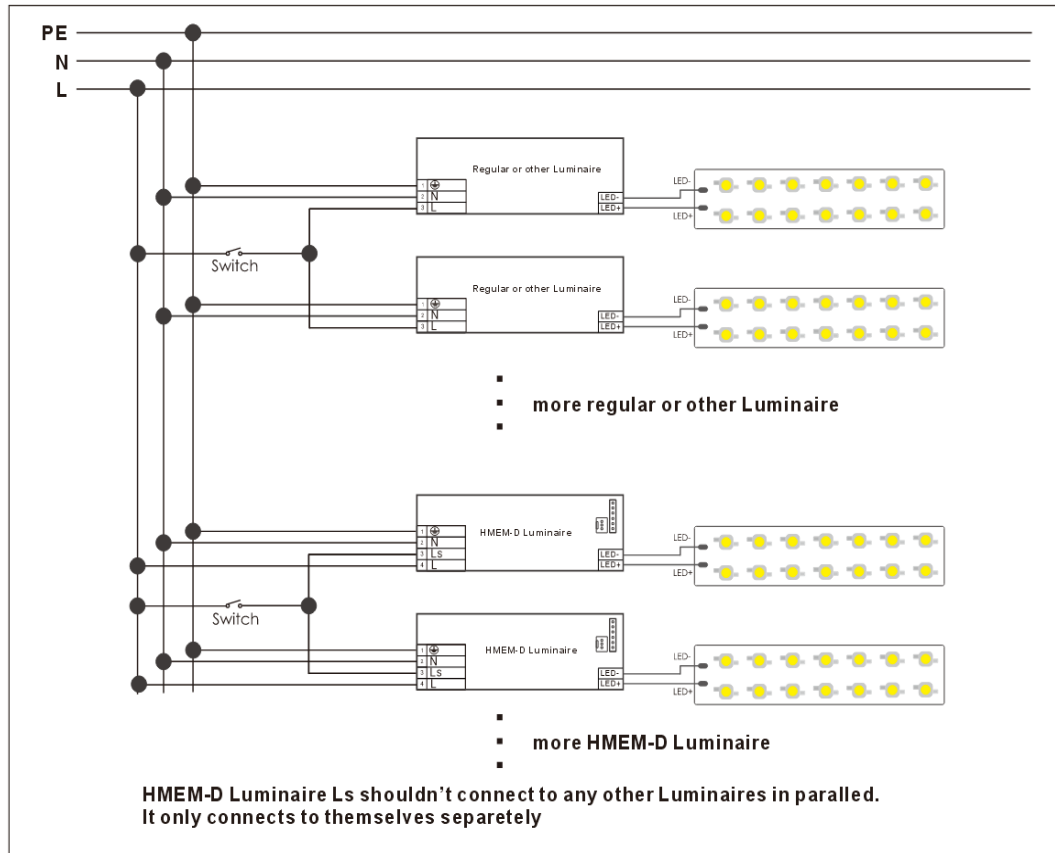
Wiring diagram



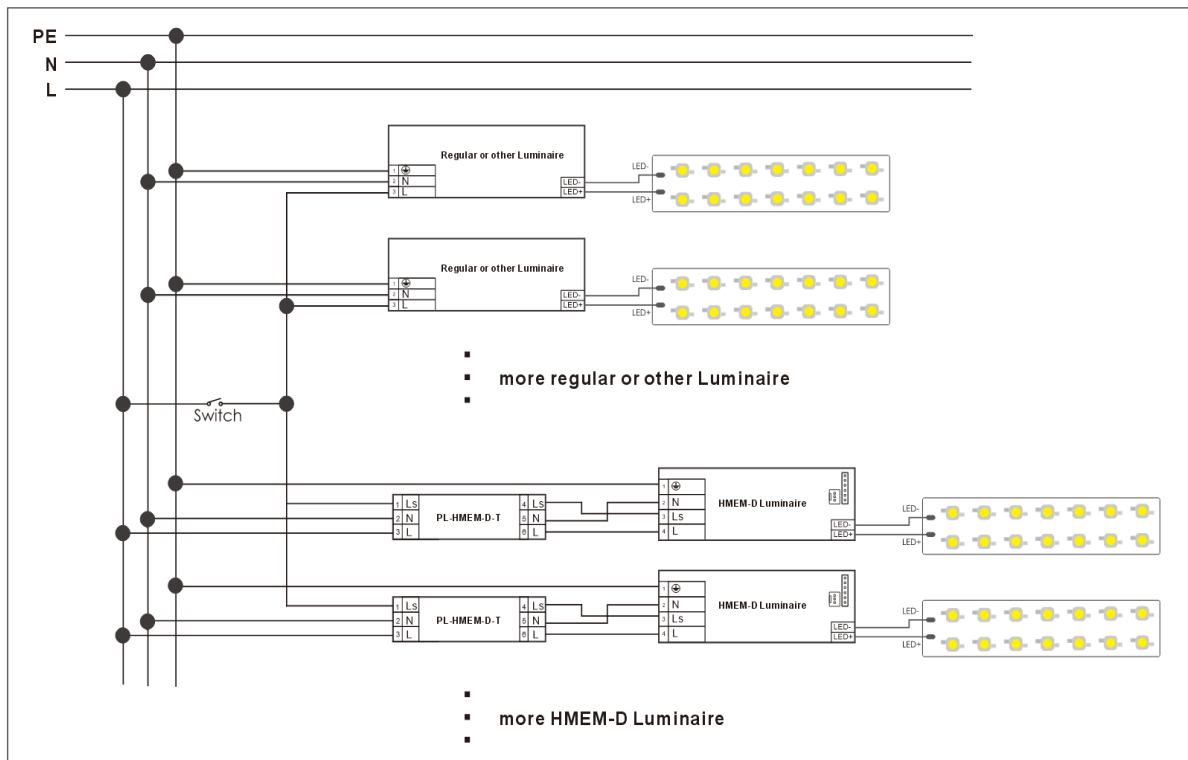
Wiring diagram in group(HMEM-D working for 24hrs)



Wiring diagram in group(HMEM-D Luminaire controlled separately)



Wiring diagram in group(HEMEM-D can switch off together with others)



9) Test Switch	Symbol	Remarks	Min.	Typical	Max.	Unit	Unit
LED indicator		indicate that charging status					
Mounting hole		Dia		5			mm
wire Length				400			mm
LED indicator status							
		LED indicate					
		Test switch					
Test Switch		checking the device function					
Mounting hole		Dia		7			mm
wire Length				400			mm

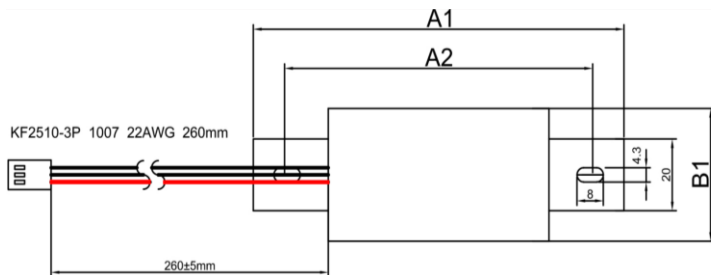
Off: Entering emergency state or circuit not powered on

Green stable: Battery fully charged

Green and Yellow: LED driver operates normally
But without battery installed

Green and Red : LED driver operates normally
Battery charging

10) Battery	Symbol	Remarks					Unit
Dimensions			L	W	H	M	
			112(A1)	37(B1)	22(C1)	92(A2)	mm
Weight			95				gram
Qty to Carton			100				pcs
Carton Size:			43*23*14.5				cm
G.W:			10.5				kgs



LiFePO4 6.4V 1.5Ah

LiFePO4 6.4V 2.0Ah

Remark

- LiFePO4 18650 battery core
- Battery voltage 6.4V
- Rated 1500 charge/discharge cycle
- Max.short term temperature 70℃
- Ambient temperature 0℃to+45℃
- Two wires:1 red and 2 black
- Length: 260mm
- The battery needs to be replaced every 12 months
- To guarantee the rated discharge time,please charge the battery for at least more than 12 hours.
- Charge and discharge cycle needs to be done at least once every three months,and the continuous charging time can not exceed 3 months.

11) Directives / Test Standards

Safety

IEC61347-1、IEC61347-2-7、IEC61347-2-13、IEC60598-2-22

EMC

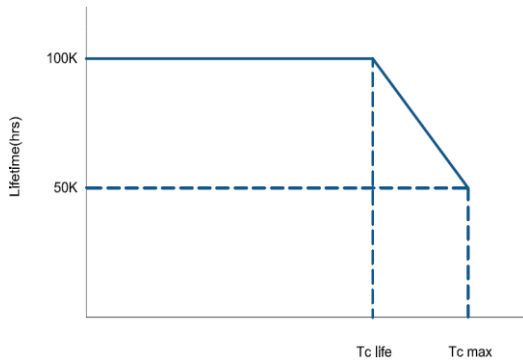
EN55015、CISPR15、EN61000-3-2、EN61547、EN61000-4-2、EN61000-4-3、EN61000-4-4、
EN61000-4-5、EN61000-4-6、EN61000-4-11

12) Addition Remarks

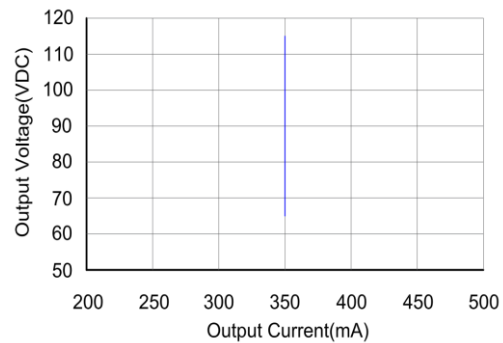
- The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. The manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished.
- The luminaire manufacturer is responsible for the correct choice and installation of the LED drivers according to the application and product datasheets. Operating conditions of the LED drivers may never exceed the specifications as per the product datasheet.
- All parameters, if not specified, are measured at 230Vac full loading and 25℃ ambient temperature
- Do not forget to connect the battery to check the operation.

13) Performance

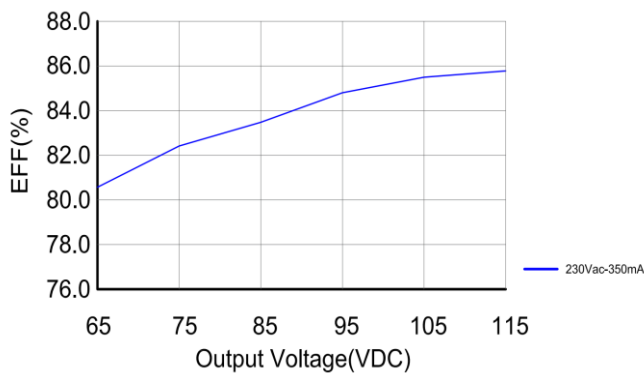
Lifetime vs. Temperature Curve



Operating window



Efficiency VS. Load



Power Factor Characteristics

