
Product Features

- 1, Constant current output
- 2, High Quality of light
- 3, High Reliability
- 3, Low Output Current Ripple
- 4, Non-isolated
- 5, Internal usage
- 6, DIP Switch 0.2/0.25/0.3/0.35/0.4/0.45/0.5/0.55A

1) Compliances and Approvals

Approvals	CB CE ENEC RCM CCC
Built-in/independent	Built in
Ingress protection	IP20
Suitable for fixture of protection Class	Class I
Output Safety Level	Non-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	186	-	250	Vdc
Input Current						
Input current	Iin	@230Vac, full load		0.41		A
Input inrush current		@264Vac, 50% width		44A,156us		A, us
Power Factor	PF	@230Vac, full load	0.9			
Total Harmonic distortion	THD	@230Vac, full load			10	%
System Efficiency	η	@230Vac, full load		94		%
Input Power						
Input Power	Pin	@230Vac, full load			85	W
Input Power@ open load		rated input voltage			0.5	W
Input Power@ standby		rated input voltage		NA		
Dimming						
Dimming type				DIP SWITCH		

3) Electric Output Characteristics

	Symbol	Remarks	Min.	Typical	Max.	Unit
Output Voltage						
Output voltage range	Vo	measured at end of wire	50		220	Vdc
Output voltage @no load	Vo.max	open load		250		Vdc
Output Current						
Output Current	Io		200/250/300/350/400/450/500/550			mA
Default Setting Current	Io			550		mA

DIP when power on is NOT allowed, please disconnect the AC power before DIP

(When the current gears are 200/250/300/350/400/450/500/550mA

and the light-load voltages are 105/85/70/60/50/50/50V respectively, The power factor complies with requirements.)

(To achieve high power factor performance,

Please keep the operating power above 32W in all modes.)

PIN1	PIN2	PIN3	Uout(V)	Iout(mA)
OFF	OFF	OFF	50-220	200
ON	OFF	OFF	50-220	250
OFF	ON	OFF	50-220	300
ON	ON	OFF	50-220	350
OFF	OFF	ON	50-200	400
ON	OFF	ON	50-178	450
OFF	ON	ON	50-160	500
ON	ON	ON	50-145	550

Output Current tolerance		-7.5	7.5	%
Current Ripple	@230Vac (Imax-Imin)/(Imax+Imin)	1		%
Output Power	Po	output performance power	80	W
Isolation	In-Out	3000Vac. for 1min	NA	mA

4) Robustness	Symbol	Remarks	Min.	Typical	Max.	Unit
General						
Electric strength	Input-Output	50Hz/60Hz and be applied for 1 min		NA		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		-25		50	°C
Maximum Tcase	Tc.max				85	°C
Tc life	Tc.life				75	°C
Operation Humidity	H.op		10		90	%
Environment Storage						
Storage temperature	T.st		-25		85	°C
Storage Humidity	H.st		10		90	%
Abnormal Condition						
Input Over Voltage		Protected, no damage to driver ^①		Without		Vac
Output Short Circuit		Protected, no damage to driver ^②		With		
Output Open load		Output voltage limited to Vo.max ^③		250		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			85	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.

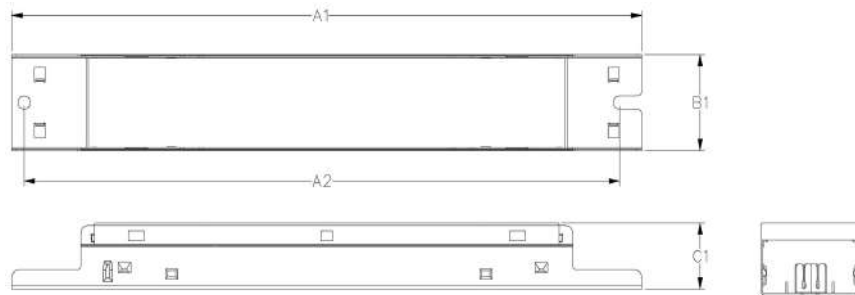
5) Warranty

- Warrenty 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 specifiacion as per the product datasheet

6) Mechanical properties	Symbol	Remarks	Unit			
Dimensions			L	W	H	M
			210(A1)	30(B1)	21(C1)	198.5(A2)
Housing Material			Metal			



7) Physical properties	Symbol	Remarks	Unit
Weight		147.3	gram
Qty to Carton		50	pcs
Carton Size:		31.5*21.5*14.5	cm
G.W:		8	kgs
Potting Raw materials		without	
Printing		printing can be changed by customer's email confirmation	

size:149*23mm

LED 控制装置 / LED драйвер

PL-HMD-080WA0550C

Made in China/中国制造

Pin:	85W	Prated:	80W
Uin:	220-240Vac	Uoutput:	50-220Vdc
Iin:	0.41Aac	Irated:	0.2/0.25/0.3/0.35
Uin:	186-250Vdc	I:	0.4/0.45/0.5/0.55Adc
Iin:	0.36-0.5Adc	tc:	+25...+50°C
Freq:	50/60Hz, DC	tc:	85°C
PF:	0.9C		output not mains isolated

Mounting Screw: M4

Torque: 0.4N·m-0.5N·m

Excluding high risk task areas.

Prated	Uoutput	Irated	Pin1	Pin2	Pin3
44W	50-220V	0.2A	OFF	OFF	OFF
55W	50-220V	0.25A	ON	OFF	OFF
66W	50-220V	0.3A	OFF	ON	OFF
77W	50-220V	0.35A	ON	ON	OFF
80W	50-200V	0.4A	OFF	OFF	ON
80W	50-178V	0.45A	ON	OFF	ON
80W	50-160V	0.5A	OFF	ON	ON
80W	50-145V	0.55A	ON	ON	ON

LED OUTPUT

Uout = 250V max

LED + 1

LED - 2

ON

OFF

1 2 3

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

8) Directives / Test Standards
Safety
Directives / Test Standards

IEC61347-1、IEC61347-2-13

EMC

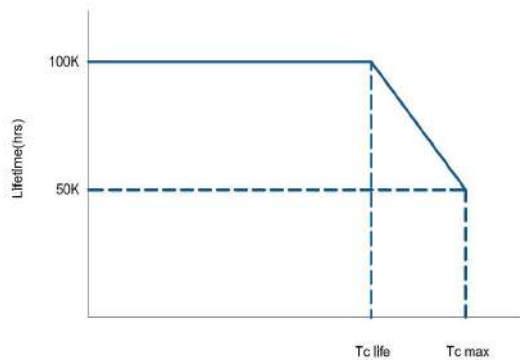
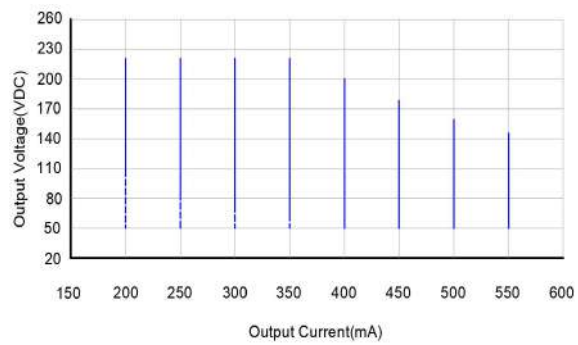
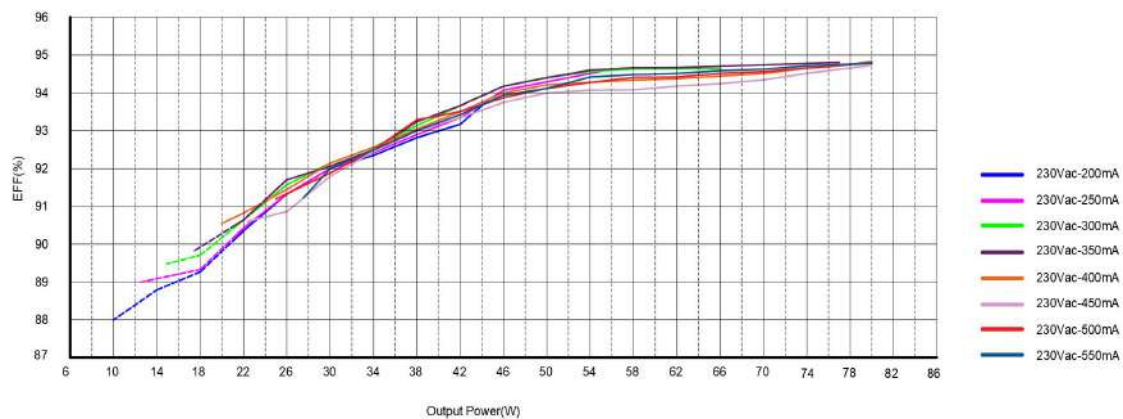
 EN55015、CISPR15、EN61000-3-2、EN61547、EN61000-4-2、EN61000-4-3、EN61000-4-4、
EN61000-4-5、EN61000-4-6、EN61000-4-11

9) 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 and 25°C ambient temperature

10) Performance
Lifetime vs. Temperature Curve

Operating window

Efficiency VS. Load

Power Factor Characteristics
