



Product Features

- 1, Constant current output
- 2, High Quality of light
- 3, High Reliability
- 4, Low Output Current Ripple
- 5, Isolated
- 6, Internal usage
- 7, DIP Switch 150/167/184/200/217/234/250/267/284/300/317/334/350/367/384/400mA

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
Enviromental	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	195	-	264	Vdc
Starting time		@230Vac, full load			500	ms
Input Current						
Input current	lin	@230Vac, full load		0.28		A
Input inrush current		@230Vac, 50% width		22.7A, 220us		A, us
Power Factor	PF	@230Vac, full load	0.95			
Total Harmonic distortion	THD	@230Vac, full load			10	%
System Efficiency	η	@230Vac, full load		90		%
Input Power						
Input Power	Pin	@230Vac, full load			55	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

Electric Output Characteristics	Symbol	Remarks	Min.	Typical	Max.	Unit																																																																																										
Output Voltage																																																																																																
Output voltage range	Vo	measured at end of wire	55		125	Vdc																																																																																										
Output voltage @no load	Vo.max	open load		150		Vdc																																																																																										
Output Current																																																																																																
Output Current	Io	150/167/184/200/217/234/250/267/284/300/317/334/350/367/384/400mA				mA																																																																																										
Default Setting Current	Io			400		mA																																																																																										
DIP when power on is NOT allowed, please disconnect the AC power before DIP																																																																																																
<table><tr><td>Iout, mA</td><td>1</td><td>2</td><td>3</td><td>4</td><td>Iout, mA</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>150mA</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>284mA</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td></tr><tr><td>167mA</td><td>ON</td><td>OFF</td><td>OFF</td><td>OFF</td><td>300mA</td><td>ON</td><td>OFF</td><td>OFF</td><td>ON</td></tr><tr><td>184mA</td><td>OFF</td><td>ON</td><td>OFF</td><td>OFF</td><td>317mA</td><td>OFF</td><td>ON</td><td>OFF</td><td>ON</td></tr><tr><td>200mA</td><td>ON</td><td>ON</td><td>OFF</td><td>OFF</td><td>334mA</td><td>ON</td><td>ON</td><td>OFF</td><td>ON</td></tr><tr><td>217mA</td><td>OFF</td><td>OFF</td><td>ON</td><td>OFF</td><td>350mA</td><td>OFF</td><td>OFF</td><td>ON</td><td>ON</td></tr><tr><td>234mA</td><td>ON</td><td>OFF</td><td>ON</td><td>OFF</td><td>367mA</td><td>ON</td><td>OFF</td><td>ON</td><td>ON</td></tr><tr><td>250mA</td><td>OFF</td><td>ON</td><td>ON</td><td>OFF</td><td>384mA</td><td>OFF</td><td>ON</td><td>ON</td><td>ON</td></tr><tr><td>267mA</td><td>ON</td><td>ON</td><td>ON</td><td>OFF</td><td>400mA</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td></tr></table>							Iout, mA	1	2	3	4	Iout, mA	1	2	3	4	150mA	OFF	OFF	OFF	OFF	284mA	OFF	OFF	OFF	ON	167mA	ON	OFF	OFF	OFF	300mA	ON	OFF	OFF	ON	184mA	OFF	ON	OFF	OFF	317mA	OFF	ON	OFF	ON	200mA	ON	ON	OFF	OFF	334mA	ON	ON	OFF	ON	217mA	OFF	OFF	ON	OFF	350mA	OFF	OFF	ON	ON	234mA	ON	OFF	ON	OFF	367mA	ON	OFF	ON	ON	250mA	OFF	ON	ON	OFF	384mA	OFF	ON	ON	ON	267mA	ON	ON	ON	OFF	400mA	ON	ON	ON	ON
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Output Current tolerance			-7.5		7.5	%																																																																																										
Current Ripple		@230Vac (Imax-Imin)/(Imax+Imin)		1		%																																																																																										
Output Power	Po	output performance power			50	W																																																																																										
Isolation	In-Out	1500Vac. for 1min			10	mA																																																																																										

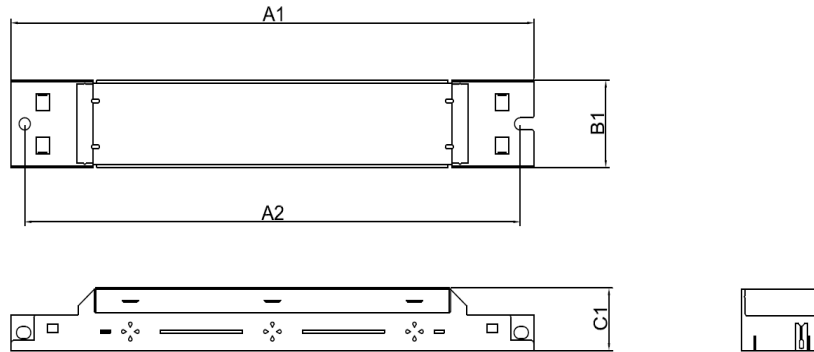
4) Robustness	Symbol	Remarks	Min.	Typical	Max.	Unit
General						
Electric strength	Input-Output	50Hz/60Hz and be applied for 1 min		1500		Vrms
	Input-GND			1480		Vrms
Insulation Resistance Test		500Vd.c. for 1min, For SELV part is 100 Vd.c.	2			MΩ
Reliability						
Rated Life@Tc.max		10% failure			50K	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		-40		50	°C
Maximum Tcase	Tc.max				85	°C
Tc life	Tc.life				60	°C
Operation Humidity	H.op		10		95	%
Environment Storage						
Storage temperature	T.st		-40		85	°C
Storage Humidity	H.st		10		95	%
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		140		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			55	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	
		195(A1) 30(B1) 21.5(C1) 184.8(A2)	mm
Housing Material		Metal	



7) Physical properties	Symbol	Remarks	Unit
Weight		144	gram
Qty to Carton		100	pcs
Carton Size:		31*20.5*23.5	cm
G.W:		15	kgs
Potting Raw materials		without	
Printing		printing can be changed by customer's email confirmation	

size:127*26mm

INPUT

L

N

LED Driver

PL-HMI-050WA0400C

220-240Vac 50/60Hz

Pin	55W	Iin	0.28A
PF	0.95	Umax	150V
Iout	400mA	Uout	55-125V
Ta	-20...50°C	Tc	80°C

9-10mm 0.5-0.75 Cable

Tc Made in China

Iout, mA	1	2	3	4	Iout, mA	1	2	3	4
150mA	OFF	OFF	OFF	OFF	284mA	OFF	OFF	OFF	ON
167mA	ON	OFF	OFF	OFF	300mA	ON	OFF	OFF	ON
184mA	OFF	ON	OFF	OFF	317mA	OFF	ON	OFF	ON
200mA	ON	ON	OFF	OFF	334mA	ON	ON	OFF	ON
217mA	OFF	OFF	ON	OFF	350mA	OFF	OFF	ON	ON
234mA	ON	OFF	ON	OFF	367mA	ON	OFF	ON	ON
250mA	OFF	ON	ON	OFF	384mA	OFF	ON	ON	ON
267mA	ON	ON	ON	OFF	400mA	ON	ON	ON	ON

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	red, push-in terminal
	-	0.5-0.75mm ²	black, push-in terminal
Connection Marking	Yes		

8) Directives / Test Standards

Safety

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

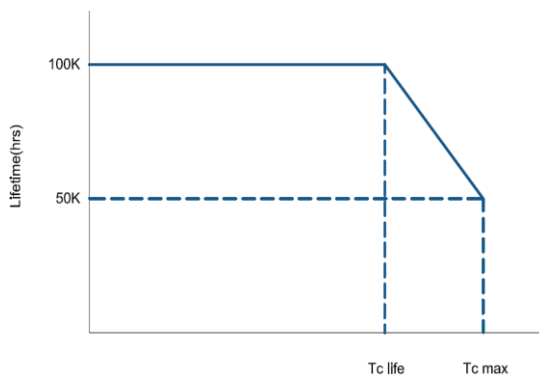
- The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. The manufacturer of LED light fixture 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.

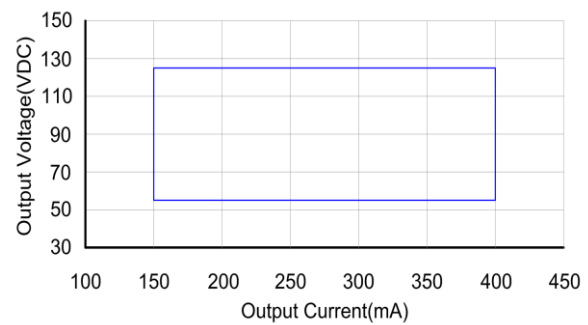
- All parameters, if not specified, are measured at 230Vac full loading and 25°C ambient temperature

10) Performance

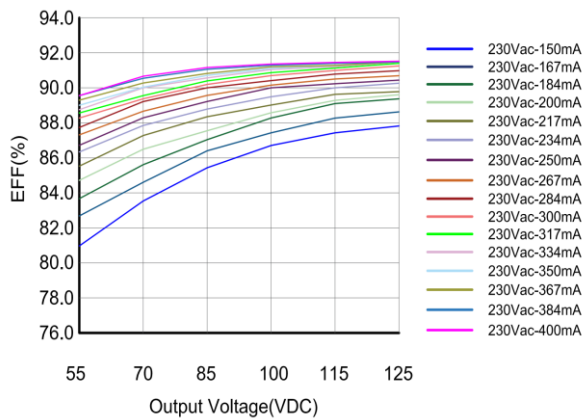
Lifetime vs. Temperature Curve



Operating window



Efficiency VS. Load



Power Factor Characteristics

