

### 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, Super slim

### 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	Non-isolated
Enviromental	Indoor
Features	Fixed

### 2) Electric Input Characteristics

	Symbol	Remarks	Min.	Typical	Max.	Unit
<b>Input Voltage</b>						
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
<b>Input Current</b>						
Input current	Iin	@230Vac, full load		0.13		A
Input inrush current		@264Vac, 50% width		11.2A,172us		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		%
<b>Input Power</b>						
Input Power	Pin	@230Vac, full load			25	W
Input Power@ open load		rated input voltage			0.5	W
Input Power@ standby		rated input voltage		NA		
<b>Dimming</b>						
Dimming type				NA		

### 3) Electric Output Characteristics

	Symbol	Remarks	Min.	Typical	Max.	Unit
<b>Output Voltage</b>						
Output voltage range	Vo	measured at end of wire	35		65	Vdc
Output voltage @no load	Vo.max	open load		150		Vdc
<b>Output Current</b>						
Output Current	Io			350		mA
Output Current tolerance			-5		5	%
Current Ripple		@230Vac (Imax-Imin)/(Imax+Imin)		1		%
<b>Output Power</b>						
Output Power	Po	output performance power			23	W
<b>Isolation</b>						
In-Out		3000Vac. for 1min		NA		mA

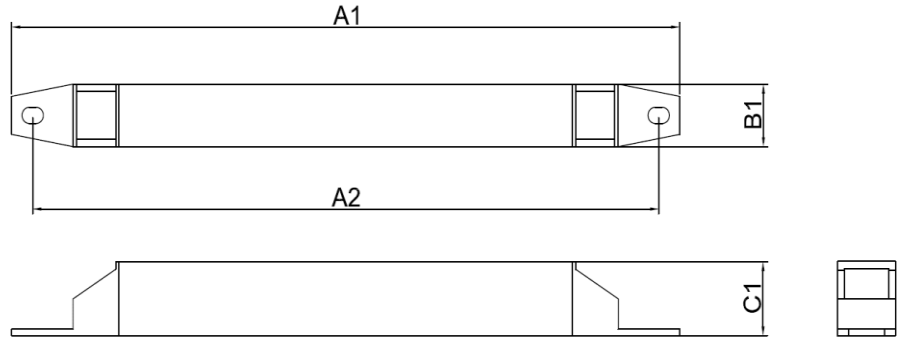
4) Robustness	Symbol	Remarks	Min.	Typical	Max.	Unit
<b>General</b>						
Electric strength	Input-Output	50Hz/60Hz and be applied for 1 min		NA		Vrms
	Input-GND			1480		Vrms
Insulation Resistance Test		500Vd.c. for 1min, For SELV part is 100 Vd.c.	2			MΩ
<b>Reliability</b>						
Rated Life@Tc.max		10% failure			50K	Hrs
Rated Life@Tc.life		10% failure			100K	Hrs
Surge	L-N			0.5		kV
Surge	L/N-PE			1		kV
<b>Environment Operation</b>						
Ambient temperature	Ta		-40		45	℃
Maximum Tcase	Tc.max				85	℃
Tc life	Tc.life				75	℃
Operation Humidity	H.op		10		90	%
<b>Environment Storage</b>						
Storage temperature	T.st		-40		85	℃
Storage Humidity	H.st		10		90	%
<b>Abnormal Condition</b>						
Input Over Voltage		Protected, no damage to driver <sup>①</sup>		Without		Vac
Output Short Circuit		Protected, no damage to driver <sup>②</sup>		With		
Output Open load		Output voltage limited to Vo.max <sup>③</sup>		120		Vdc
Too High Ambient Temperature		Protected by built-in thermal protection in controller IC <sup>④</sup>		With		
Input Over Power		Input power should be limited and no damage to driver <sup>⑤</sup>			25	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

- 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 specification as per the product datasheet

6) Mechanical properties	Symbol	Remarks	Unit
Dimensions			
		L                  W                  H                  M	
		196(A1)    16.5(B1)    19.5(C1)    183.7(A2)	mm
Housing Material		Plastic	



7) Physical properties	Symbol	Remarks	Unit
Weight		44.3	gram
Qty to Carton		200	pcs
Carton Size:		35*21*25	cm
G.W:		9.5	kgs
Potting Raw materials		without	
Printing		printing can be changed by customer's email confirmation	

size:123\*14mm

<b>INPUT</b>	<b>OSSDAT</b>	<b>U<sub>in</sub>,Vac</b>	<b>F<sub>n</sub>,Hz</b>	<b>P<sub>in</sub>,W</b>	<b>I<sub>in</sub>,A</b>	<b>PF</b>	<b>U<sub>out</sub>,Vdc</b>	<b>U<sub>max</sub>,Vdc</b>	<b>I<sub>out</sub>,mA</b>	<b>T<sub>a</sub>,°C</b>	<b>T<sub>c</sub>,°C</b>	<b>OUTPUT</b>
<input checked="" type="checkbox"/> L		220-240	50/60	25	0.22	0.95	35-65	150	350	-40...45	85	<input checked="" type="checkbox"/> + <input checked="" type="checkbox"/> - <input type="checkbox"/> tc:test point <input checked="" type="checkbox"/> Made in China
<input type="checkbox"/> N	PL-HTN-023WB0350C Power supply for LED											

CE     ENEC     RoHS    9-10mm Cable    0.5-0.75mm<sup>2</sup>

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

**8) Directives / Test Standards**

**Directives / Test Standards**

**Safety**

IEC61347-1、IEC61347-2-13

**EMC**

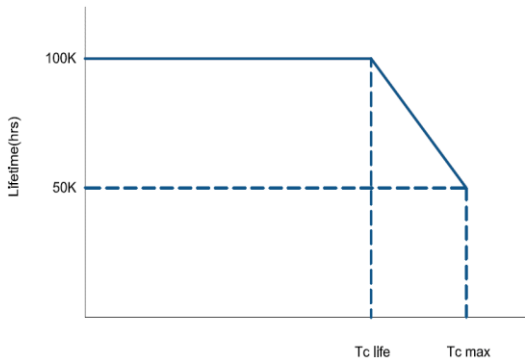
EN55015、CISPR15、EN61000-3-2、EN61547、EN61000-4-2、EN61000-4-3、EN61000-4-4、EN61000-4-5、EN61000-4-6、EN61000-4-11

**9) Addition Remarks**

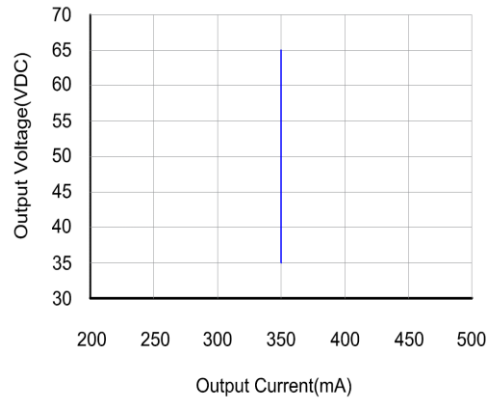
- The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. The manufacturer of LED light fixture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

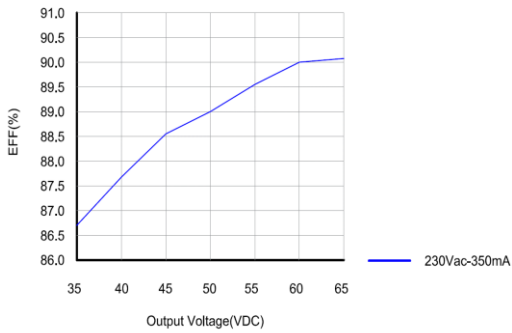
**Lifetime vs. Temperature Curve**



**Operating window**



**Efficiency VS. Load**



**Power Factor Characteristics**

