

PIHB-L201A

Flat 22W LED Driver

23V - 25V / 0.88A / 22W

Features

- ▶ Dimming Method: 1-10V Dimming, IR
- ▶ Constant Current Control
- ▶ Active Power Factor Correction
- ▶ Protection : OVP, SCP
- ▶ K61347-1, K61347-2-13, K62384, EN 61347-1, EN 61347-2-13 Safety Certifications Approved
- ▶ RoHS Compliant



- ▶ Mechanical Outline
(Metal Case)
- 300 × 43 × 28mm



Electrical Specifications

Output [W]	Output [Vdc]	Output [A]	Input [Vac]	Dim. Method	PF	Efficiency [%]	Mechanical Outline [LxWxH mm]
22	23-25	0.88	100-240	1-10V, IR	>0.9	Min. 80	300 × 43 × 28

Input Specifications

Parameter	Min.	Typ.	Max.	Unit	Remark
Input Voltage (Nominal)	100	-	240	Vac	
Input Voltage (Performance)	90	-	264	Vac	
Input Current	-	-	0.3	A	@ AC 100V, 100% Load
Input Wattage	-	-	25.4	W	@ AC 100V, 100% Load
Standby Power	-	-	1.5	W	@ AC 100-240V
Nominal Input Frequency	-	50/60	-	Hz	
Efficiency	80	-	-	%	@ AC 100-240V, 100% Load
Power Factor	0.9	-	-	-	@ AC 100-240V, 100% Load
THD	-	-	25	%	@ AC 100-240V, 100% Load
Inrush Current	-	-	-	Apk	

※ Note : All parameters NOT specially mentioned are measured at rated load and 25℃ of ambient temperature.

Output Specifications

Parameter	Min.	Typ.	Max.	Unit	Remark
Output Voltage	23.2	24.0	24.8	V	
Output Current Range	-	0.88	-	A	Fixed Current
Output Dimming Current Range	10	-	100	%	1-10V Dimming
Output Dimming Current Range	0	-	100	%	IR (Step Dimming)
Output Current Tolerance	-5	-	5	%	@ 100% Dimming
Output Ripple Current	-	-	5	%	= Peak to Peak / rms @ 100% Dimming
Output Power	19.4	21.12	22.92	W	
Start-up Time	-	-	1,000	ms	@ 100% Dimming

Protection Functions

Parameter	Min.	Typ.	Max.	Unit	Remark
Output Over Voltage Protection	-	-	50	V	Auto Recovery
Output Short Circuit Protection	-	-	-	A	Auto Recovery

Environmental Specifications

Parameter		Min.	Typ.	Max.	Unit	Remark
Temperature	Operation	-20	-	40	°C	@ Ta
		-	-	60	°C	@ Tc
	Storage	-30	-	80	°C	@ Ta
Humidity	Operation	-	-	95	%	-
	Storage	10	-	90	%	-
Lifetime		50	-	-	KHrs	@ Tc=40°C

※ Note : All parameters NOT specially mentioned are measured at rated load and 25°C of ambient temperature.

Standards

Parameter	Condition	Remark
Safety Standards	Design to meet the requirements as follows ; - CE: EN 61347-1, EN 61347-2-13, EN 62493 - KC: K61347-1, K61347-2-13, K62384	
EMI / RFI Standards	Design to meet the requirements as follows ; - CE: EN 62493, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3 - KC: K00015, K61547	

Dimming Control

1. IR Remote Controller Dimming

IR Remote Controller Dimming Condition					
Article	Unit	Min	Typ	Max	Remark
Step 1 100% Dimming	[mA]	836	880	924	No Flicker & Shimmer @All Dimming Condition
Step 2 80% Dimming	[mA]	633	704	775	
Step 3 60% Dimming	[mA]	475	528	581	
Step 4 40% Dimming	[mA]	316	352	388	
Step 5 20% Dimming	[mA]	158	176	194	

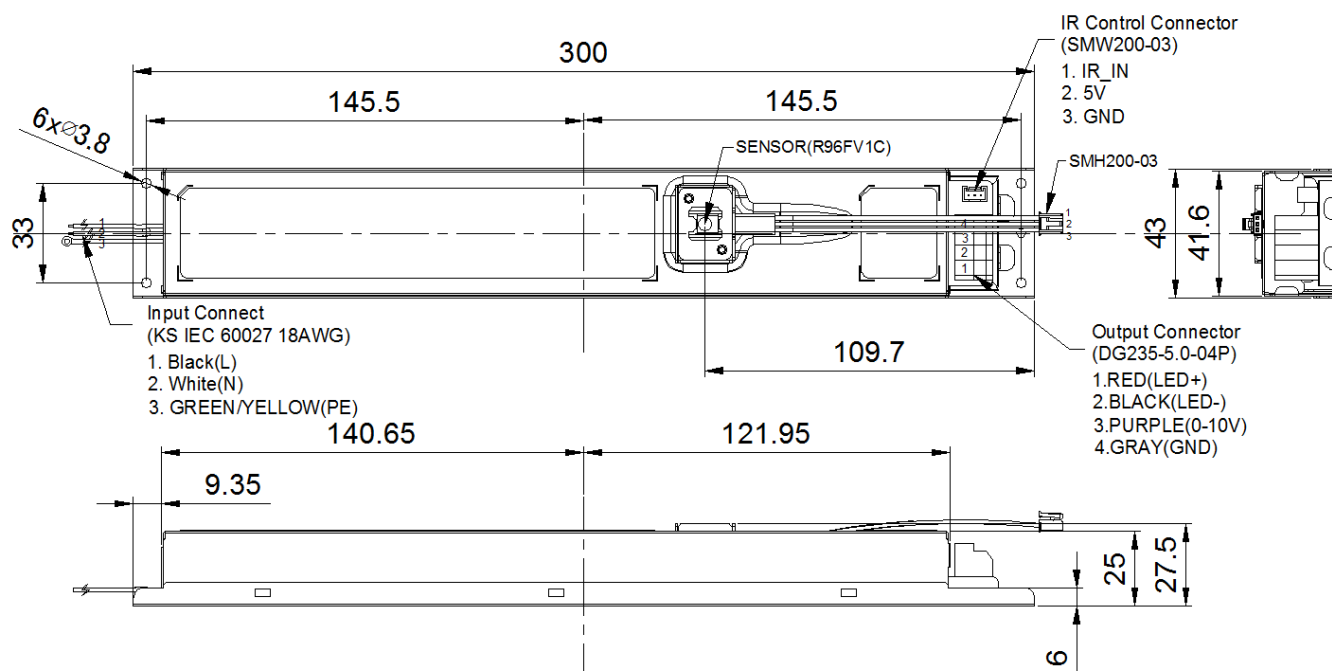
2. 1-10V Dimming

1-10V Dimming Condition					
Article	Unit	Min	Typ	Max	Remark
Min Illumination Value	[V]	0	-	1	No Flicker & Shimmer @All Dimming Condition
Min Hysteresis Value	[V]	0.7	-	1.2	
Min Illumination Value (Output Current)	[mA]	158	176	194	
Voltage Value contrast Illumination Value	[V]	1	-	10	
Max Illumination Value	[V]	10	-	-	
Maximum Hysteresis Value	[V]	9	-	11	
Max Illumination Value (Output Current)	[mA]	836	880	924	
Dimmer Open Illumination Value	[V]	9	10	11	

Mechanical Outline

1. Case Dimension

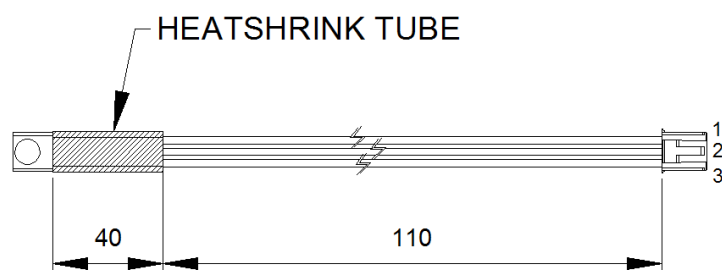
(Unit: mm)



WIRE SPECIFICATION

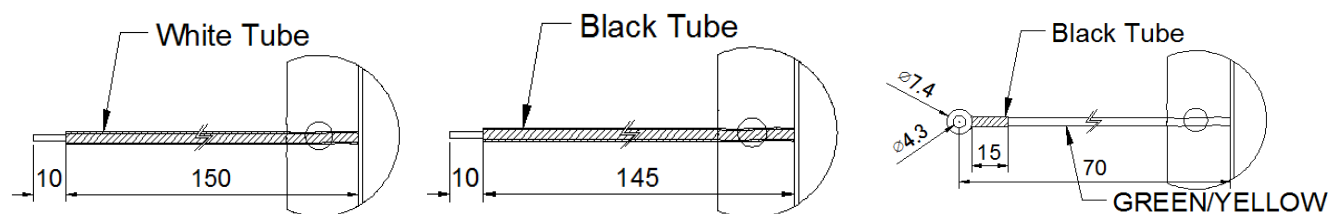
1) IR SENSOR(with HEATSHRINK TUBE)

: UL1007 #26 AWG, Stranded Wire, White(1)/Red(2)/Black(3)



2) Input Connect

: KS IEC 60227 0.75mm(18AWG)

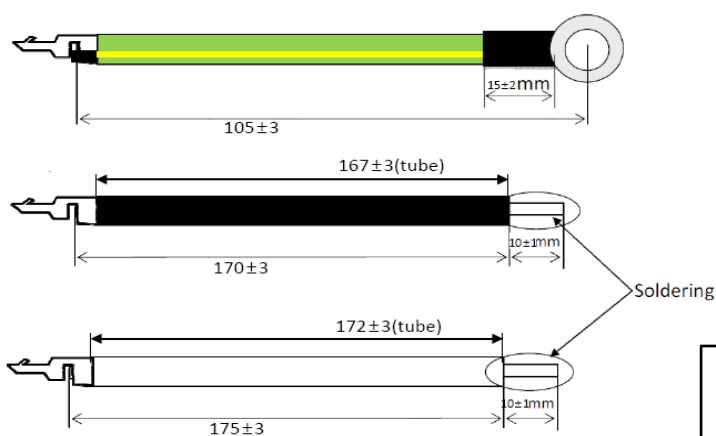


Mechanical Outline

2. Connector Description

2.1 AC Input Connector

Item	No	Name	Color
AC Input	1	Line	Black Wire
	2	Neutral	White Wire
	3	PE	PE Wire + Ring Terminal



NOTE

- Wire Total Tolerance : ± 3 mm
- Soldering Tolerance : ± 1 mm

2.2 DC Output Connector

Item	No	Name	Color
DC Output	1	LED+	Red
	2	LED-	Black
	3	1-10V	Purple
	4	GND	Gray

2.3 IR Control Connector

Item	No	Name
IR Control	1	IR_IN
	2	5V
	3	GND

Datasheet Revision History

Change Date	Rev. No.	Description of Change	Remark
2014/09/26	1.0	- Initial Release	