

PISD-W201D

Outdoor 100W LED Driver

38V - 50V / 1.3A - 2.0A / 100W

Features

- ▶ Dimming Method: 1-10V Dimming
- ▶ Constant Current Control
- ▶ Adjustable Output Current
- ▶ High Efficiency & Active Power Factor Correction
- ▶ Protection : OVP, OPP and OTP
- ▶ EN 61347-1, EN 61347-2-13, EN 62493, K61347-1, K61347-2-13, K62384, KS C 7655, J61347-1, J61347-2-13 Safety Certifications Approved
- ▶ RoHS Compliant



Electrical Specifications

Output [W]	Output [Vdc]	Output [A]	Input [Vac]	Dim. Method	PF	Efficiency [%]	Mechanical Outline [LxWxH mm]
100	38-50	1.3-2.0	100-240	1-10V	>0.9	Max. 91.5	228 × 68 × 40

Input Specifications

Parameter	Min.	Typ.	Max.	Unit	Remark
Input Voltage (Nominal)	100	-	240	Vac	
Input Voltage (Performance)	90	-	264	Vac	
Input Current	-	-	1.14	A	@ AC 100V, 100% Load
Input Wattage	-	-	112	W	@ AC 100V, 100% Load
Nominal Input Frequency	-	50/60	-	Hz	
Efficiency	-	-	91.5	%	@ AC 230V, 100% Load
Power Factor	0.9	-	-	-	@ AC 100-240V, 100% Load
THD	-	-	20	%	@ 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	38	48	50	V	
Output Current Range	1.3	-	2.0	A	Variable Resistor
Output Dimming Current Range	10	-	100	%	1-10V Dimming
Output Current Tolerance	-5	-	5	%	@ 100% Dimming
Output Ripple Current	-	-	20	%	= Peak to Peak / rms @ 100% Dimming
Output Power	-	100	-	W	
Start-up Time	-	-	2,000	ms	@ 100% Dimming

Protection Functions

Parameter	Min.	Typ.	Max.	Unit	Remark
Output Over Voltage Protection	-	-	60	V	Auto Recovery
Output Over Power Protection	-	200	-	W	Auto Recovery & Latch
Output Over Temp. Protection	-	105	-	°C	Decrease Current @ Tc

Environmental Specifications

Parameter		Min.	Typ.	Max.	Unit	Remark
Temperature	Operation	-40	-	60	°C	@ Ta
		-	-	80	°C	@ Tc
	Storage	-40	-	80	°C	@ Ta
Humidity	Operation	10	-	90	%	-
	Storage	-	-	90	%	-
Lifetime		50	-	-	KHrs	@ Tc=75°C

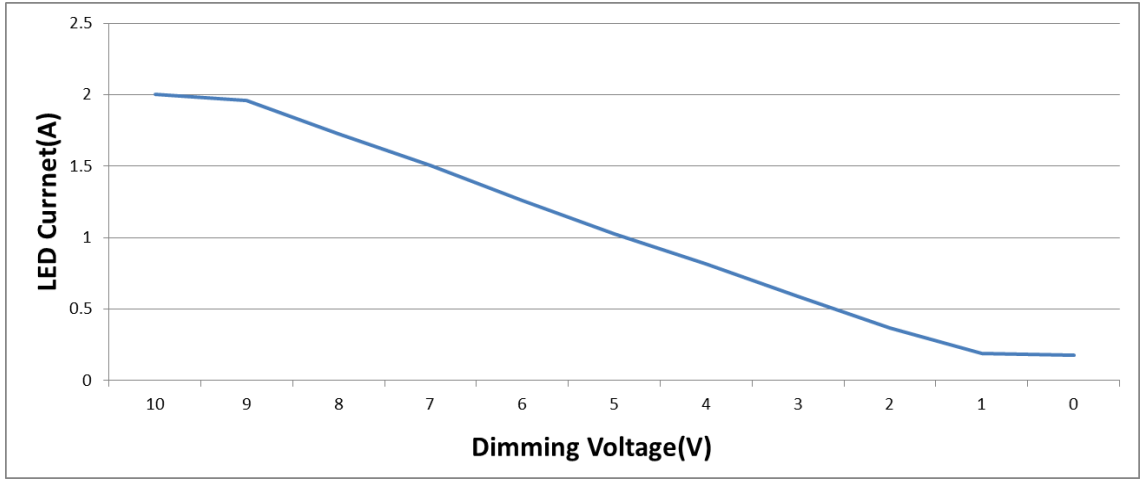
※ Note : All parameters NOT specially mentioned are measured at rated load and 25°C of ambient temperature.

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 - KS: KS C 7655 - PSE: J61347-1, J61347-2-13	
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 - KS: KS C CISPR 15, KS C IEC 61547 - PSE: J55015	
Ingress Protection	- IP65	

Dimming Control (1-10V Dimming)

- * Dimming characteristic: Maximum load over 10V, Minimum load under 1V.
- * The output is maximum load when the dimming leads are floating by internal full-up resistor.
- * The output is minimum load when the dimming leads are short.



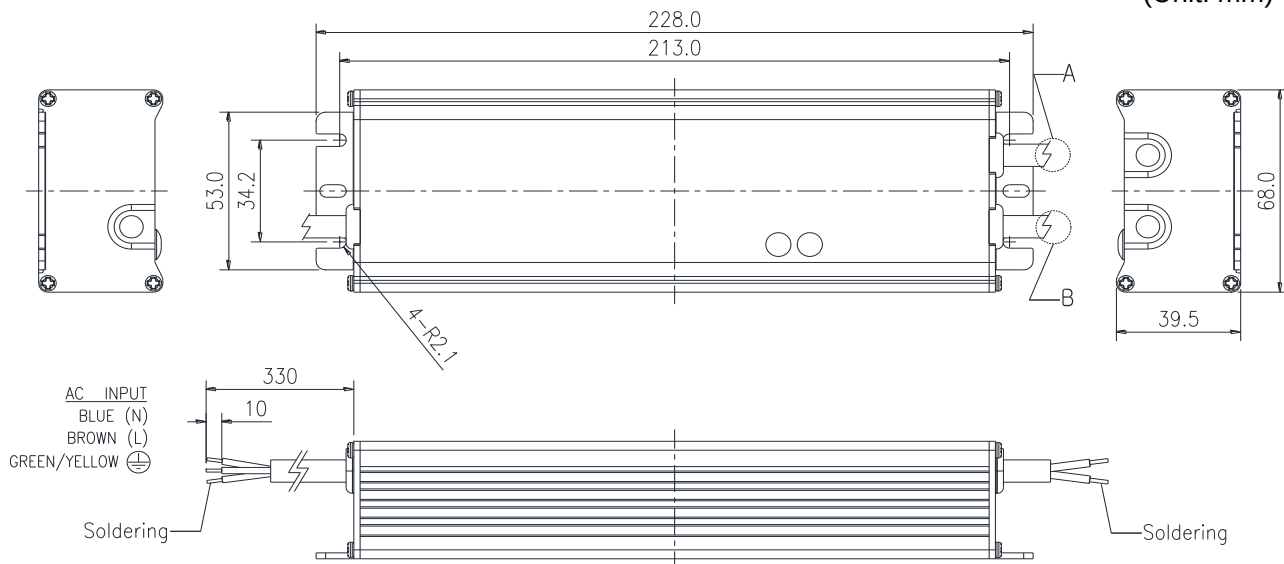
Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Datasheet is subject to change without notice.

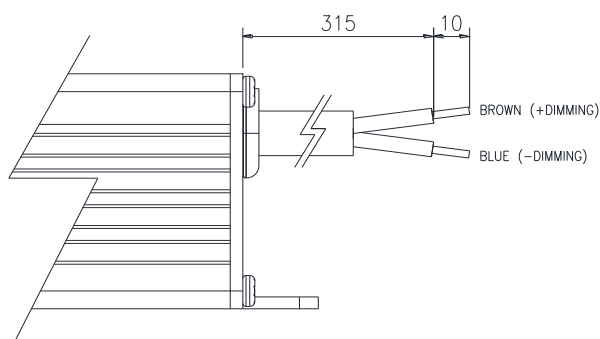
Mechanical Outline

1. Case Dimension

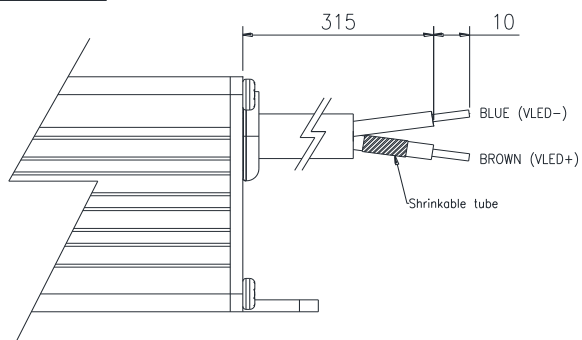
(Unit: mm)



Detail "A"



Detail "B"



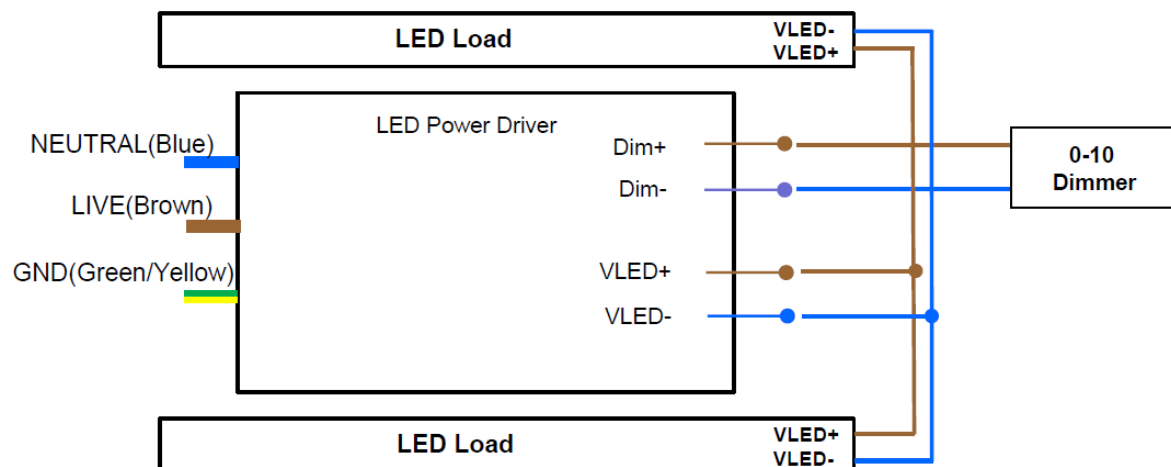
WIRE SPECIFICATION

- AC INPUT : HO5RN-F 3G 1.0mm²
- DC OUTPUT : HO5RN-F 1.0/2C
- DIMMING : HO5RN-F 1.0/2C

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Mechanical Outline

2. Connector Description



Datasheet Revision History

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