

PNV25V SERIES



25W Single Constant Current Output LED Driver

- Wide Input Voltage 90 to 265VAC, 47 to 63Hz
- Over Voltage / Short Circuit / Over Temperature Protection
- High Efficiency (up to 85%)
- IP65 Waterproof Rating, Fully isolated
- Comply to worldwide safety regulations for lighting
- Cooling by free air convection
- Suitable for LED lighting & moving sign applications, for dry / damp / wet locations

3 Year Warranty

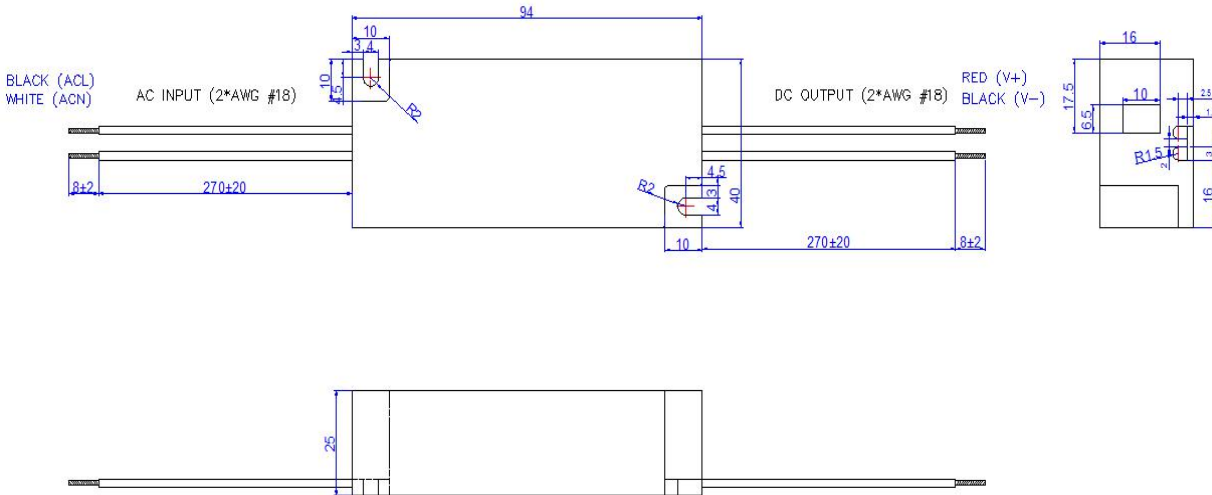
Approvals: **IP65** **RoHS** **CE**

SPECIFICATION

Part Number	PNV25V-0125S	PNV25V-0245S	PNV25V-0365S	PNV25V-0485S
OUTPUT	CONSTANT DC VOLTAGE			
	12V	24V	36V	48V
	CURRENT REGION Note.4			
	0.1~2.08A	0.1~1.04A	0.1~0.69A	0.1-0.52A
	RATED POWER			
	25W			
	RIPPLE & NOISE(max.) Note.2			
	1.18V	2.23V	3.32V	4.53V
VOLTAGE TOLERANCE Note.3				
±5.0%				
LINE REGULATION				
±1%				
LOAD REGULATION				
±3.0%	±3.0%	±3.0%	±3.0%	
SETUP, RISE TIME(Typ.) Note.7				
400ms/100ms 110VAC 200ms/100ms 220VAC at full load				
INPUT	VOLTAGE RANGE Note.5			
	90 ~ 265VAC			
	FREQUENCY RANGE			
	47 ~ 63Hz			
	POWER FACTOR(Typ.)			
	0.95			
	EFFICIENCY(Typ.)			
85%	85%	86%	87%	
AC CURRENT(Typ.)				
0.26A/115VAC 0.13A/230VAC				
INRUSH CURRENT(Typ.)				
COLD START 9A (Twidth=270us measured at 50% Ipeak) at 230VAC				
LEAKAGE CURRENT				
<0.75mA/265VAC				
PROTECTION	OVER CURRENT Note.4			
	95 ~ 108%			
	Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CURRENT			
	Hiccup mode, recovers automatically after fault condition is removed			
OVER VOLTAGE				
12.7V	25.1V	36.8V	49.1V	
Protection type: Hiccup mode, recovers automatically after fault condition is removed				
OVER TEMP.				
Hiccup mode, recovers automatically after fault condition is removed				
ENVIRONMENT	WORKING TEMP.			
	-35 ~ +70 °C (Refer to "Derating Curve")			
	WORKING HUMIDITY			
	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY			
-40 ~ +85 °C, 10 ~ 95% RH				
TEMP. COEFFICIENT				
±0.2% °C (0~50 °C)				
VIBRATION				
10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
SAFETY & EMC	SATETY STANDARDS Note.6			
	UL8750, UL935, UL1012, CSA-C22.2 No.107.1, EN61347-1, EN61347-2-13			
	WITHSTAND VOLTAGE			
	I/P – O/P: 3.75kVAC			
	ISOLTATION RESISTANCE			
I/P – O/P: 100M Ohms / 500VDC /25 °C / 70% RH				
EMC EMISSION				
Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3				
EMC IMMUNITY				
Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 2kV), criteria A				
OTHERS	MTBF			
	550khrs min. MIL-HDBK-217F (25 °C)			
	DIMENSIION			
94*40*25MM (L*W*H)				
PACKING				
170±10g				

NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation & load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for details. 6. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes. 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must re-qualify EMC DIRECTIVE on the complete installation again. 9. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 10. To fulfill requirements of the latest ERP regulation for lighting fixtures, this LED power supply can only be used behind switch without permanently connected to the mains.
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Mechanical Specification



Derating Curve

