

PNV16V SERIES



16W Single Output Constant Voltage 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	PNV16V-012SS	PNV16V-024SS	PNV16V-036SS	PNV16V-048SS
OUTPUT	CONSTANT DC VOLTAGE			
	12V	24V	36V	48V
	CURRENT REGION Note.4			
	0.1~1.3A	0.1~0.67A	0.1~0.45A	0.1-0.34A
	RATED POWER			
	16W			
	RIPPLE & NOISE(max.) Note.2			
	1.13V	2.16V	3.14V	4.25V
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.)			
83%	83%	84%	85%	
AC CURRENT(Typ.)				
0.16A/115VAC 0.08A/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				

