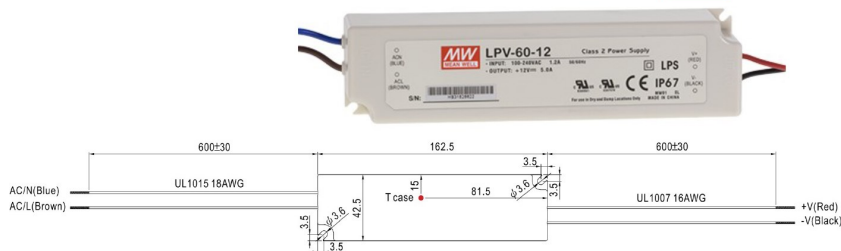


Project :	Date :
Cat. No. :	Type :
Notes :	Volts :

CLASS II LED POWER SUPPLY CONSTANT VOLTAGE

Features:

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note 8)
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.7)
- 100% full load burn-in test
- Low cost, high reliability



SPECIFICATION

MODEL		TNLPV-60-12V	TNLPV-60-24V
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	5A	2.5A
	CURRENT RANGE	0 ~ 5A	0 ~ 2.5A
	RATED POWER	60W	60W
	RIPPLE & NOISE (max.) <small>Note.2</small>	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE <small>Note.3</small>	±8.0%	±5.0%
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±6.0%	±2.0%
INPUT	SETUP, RISE TIME <small>Note.6</small>	500ms, 20ms / 230VAC	500ms, 20ms / 115VAC at full load (for 5~36V)
	HOLD UP TIME (Typ.)	50ms/230VAC	16ms/115VAC at full load
	VOLTAGE RANGE <small>Note.4</small>	90 ~ 264VAC	127 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	83%	86%
	AC CURRENT (Typ.)	1.2A/115VAC	1A/230VAC
	INRUSH CURRENT(max.)	COLD START 30A/115VAC	60A/230VAC
	LEAKAGE CURRENT	0.25mA / 240VAC	
PROTECTION	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	13.8 ~ 16.2V 27.6 ~ 32.4V Protection type : Shut down o/p voltage, re-power on to recover	
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL879(except for LPV-60-5), UL1310(except for LPV-60-5), CSA C22.2 No. 207-M89(except for LPV-60-5, LPV-60-48), CAN/CSA C22.2 No. 223-M91(except for LPV-60-5, LPV-60-48), IP67 approved ; design refer to TUV EN60950-1	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	
	ISOLATION RESISTANCE	I/P-O/P>100M Ohms / 500VDC / 25°C / 70% RH	
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A	
OTHERS	MTBF	732Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	162.5*42.5*32mm (L*W*H)	
	PACKING	0.4Kg: 32pcs/13.8Kg/0.56CUFT	
NOTE	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 and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. 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 manufacturers must re-qualify EMC Directive on the complete installation again. 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit. 8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.		

Natech Industrie

1995 Francis Hughes, Laval, Qc H7S 2G2 T: (450) 629-1169, F: (450) 629-1168, www.natechlighting.com, service@natechlighting.com

This specification is valid as of 2022-09 and is subject to change without notice. Please confirm with the manufacturer before placing an order.
Copyright 2014 Natech Industrie. All rights reserved.