

Project :

Date :

Cat. No. :

Type :

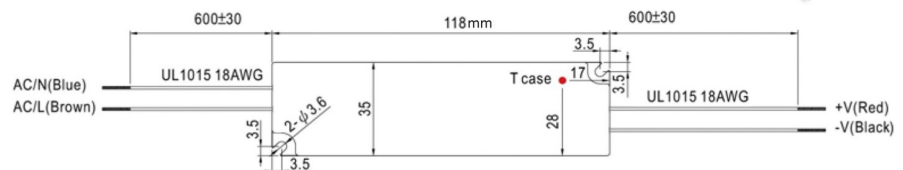
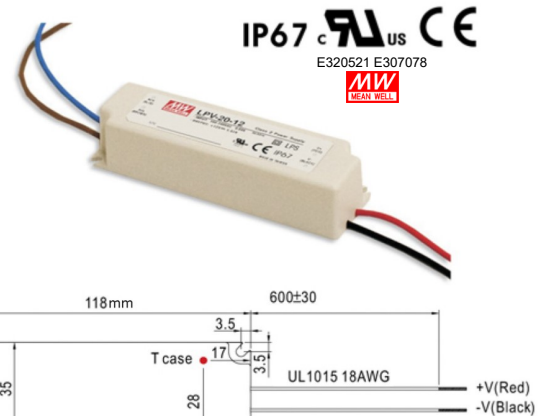
Notes :

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
- Small and compact size
- Fully encapsulated with IP67 level (Note.7)
- Fully isolated plastic case
- Class II power unit, no FG
- Pass LPS
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



SPECIFICATION

MODEL		NTLPV-20-12	NTLPV-20-24
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	1.67A	0.84A
	CURRENT RANGE	0 ~ 1.67A	0 ~ 0.84A
	RATED POWER	20W	20.2W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±2.0%	
INPUT	SETUP, RISE TIME Note.6	500ms, 20ms / 230VAC	500ms, 20ms / 115VAC at full load
	HOLD UP TIME (Typ.)	50ms/230VAC	16ms/115VAC at full load
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	81%	83%
	AC CURRENT (Typ.)	0.55A/115VAC	0.35A/230VAC
PROTECTION	INRUSH CURRENT(max.)	COLD START 35A/115VAC	70A/230VAC
	LEAKAGE CURRENT	0.25mA / 240VAC	
	OVERLOAD	110 ~ 150% rated output power	
ENVIRONMENT	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	WORKING TEMP.	13.8 ~ 16V	28 ~ 32V
SAFETY & EMC	OVER VOLTAGE	Protection type : Shut off o/p voltage, clamping by zener diode	
	WORKING HUMIDITY	-30 ~ +70°C (Refer to "Derating Curve")	
	STORAGE TEMP., HUMIDITY	20 ~ 90% RH non-condensing	
	TEMP. COEFFICIENT	-40 ~ +80°C, 10 ~ 95% RH	
OTHERS	VIBRATION	±0.03%/°C (0 ~ 50°C)	
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
	WITHSTAND VOLTAGE	UL879, UL1310 Class 2, CAN/CSA C22.2 No. 223-M91, IP67 approved ;	
	ISOLATION RESISTANCE	I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH	
	EMC EMISSION	I/P-O/P: >3KVAC	
NOTE	EMC IMMUNITY	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3	
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A	
	DIMENSION	786.5Khrs min. MIL-HDBK-217F (25°C)	
NOTE	PACKING	118*35*26mm (L*W*H)	
		0.22Kg; 60pcs/14.2Kg/0.62CUFT	

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. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.

Natech Industrie

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This specification is valid as of 2014-09 and is subject to change without notice. Please confirm with the manufacturer before placing an order.
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