NATECH LEDCONNX©

NTLPV35-12V/24V

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

CLASS II LED POWER SUPPLY CONSTANT VOLTAGE

F 110 □ LPS IP67 c ᴿᵁˢ CB CE
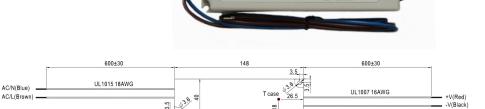E307078
MW MEAN WELL

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.8)
- 100% full load burn-in test

600±30   148   600±30
AC/N(Blue)   UL1015 18AWG   3.5   T case   26.5   UL1007 16AWG   +V(Red)
AC/L(Brown)   40   18   -V(Black)
3.5   3.5

SPECIFICATION

MODEL		LPV-35-12	LPV-35-24
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	3A	1.5A
	CURRENT RANGE	0 ~ 3A	0 ~ 1.5A
	RATED POWER	36W	36W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±2.0%	
	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
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	84%	85%
	AC CURRENT (Typ.)	1.1A/115VAC	0.7A/230VAC
	INRUSH CURRENT(Typ.)	COLD START 55A(twidth=510µs measured at 50% Ipeak) at 230VAC	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 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	
ENVIRONMENT	WORKING TEMP.	-30 ~ +65℃ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL1310 class 2, CAN/CSA No. 223-M91, CB IEC61347-1,IEC61347-2-13,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℃/ 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	743.5Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	148*40*30mm (L*W*H)	
	PACKING	0.34Kg; 40pcs/14.6Kg/0.63CUFT	
NOTE		1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. LPV-35-5 can provide 6A of output current continuously. Based on the requirement of UL1310 class 2, the output current is only certified up to 5A for the test report of LPV-35-5. 8. 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. 9. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.	