

X0399 Power Supply

NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

Features

- Universal AC input/full range
- Protections: Short circuit/overload/over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- Isolation Class II
- LED indicator for power on
- 100% full load burn-in test

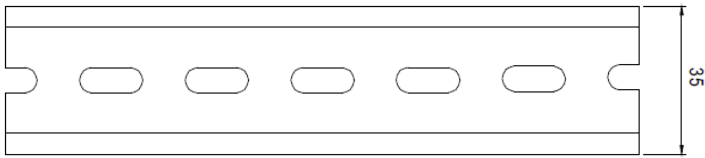
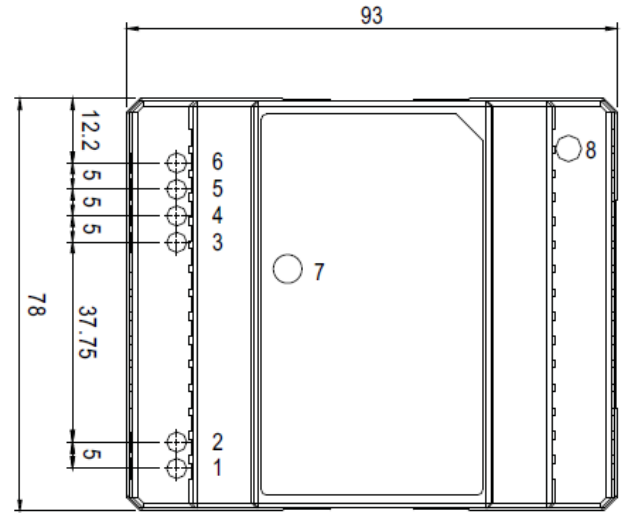
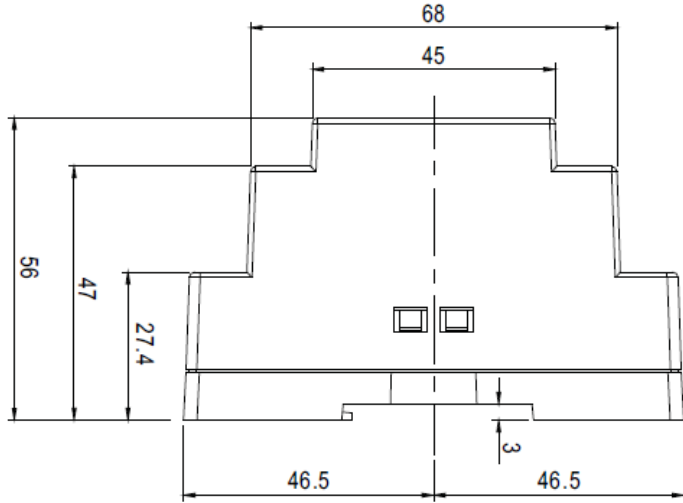


Specifications

	DC Voltage	24V
	Rated Current	2.5A
	Current Range	0 ~ 2.5A
	Rated Power	60W
Output	Ripple & Noise (max.)	(Note.2) 150mVp-p
	Voltage Adj. Range	21.6 ~ 26.4V
	Voltage Tolerance	(Note.3) ±1.0%
	Line Regulation	±1.0%
	Load Regulation	±1.0%
	Setup, Rise Time	100ms, 30ms/230VAC 200ms, 30ms/115VAC at full load
	Hold Up Time (Typ.)	100ms/230VAC 23ms/115VAC at full load
Input	Voltage Range	88 ~ 264VAC 124 ~ 370VDC
	Frequency Range	47 ~ 63Hz
	Efficiency (Typ.)	84%
	AC Current (Typ.)	1.2A/115VAC 0.8A/230VAC
	Inrush Current (Typ.)	Cold start 18A/115VAC 36A/230VAC
Protection	Overload	105 ~ 160% rated output power
	Over Voltage	Protection type: Constant current limiting, recovers automatically after fault condition is removed 27.6 ~ 32.4V
	Working Temp.	Protection type: Shut off o/p voltage, re-power on to recover -20 ~ +60°C (Refer to "Derating Curve")
Environment	Working Humidity	20 ~ 90% RH non-condensing
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)
	Vibration	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes: Mounting: Compliance to IEC60068-2-6
Safety & EMC	Safety Standards	UL60950-1, TUV EN60950-1 approved, design refer to EN50178
	Withstand Voltage	I/P-O/P:3KVAC
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH
(Note.4)	EMC Emission	Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A
	MTBF	216.2K hrs min. MIL-HDBK-217F (25°C)
Others	Dimension	78 x 93 x 56mm (W x H x D)
	Packing	0.3Kg; 48pcs/15.4Kg/1.02CUFT
Note	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature</p> <p>2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives</p>	

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Mechanical Specification

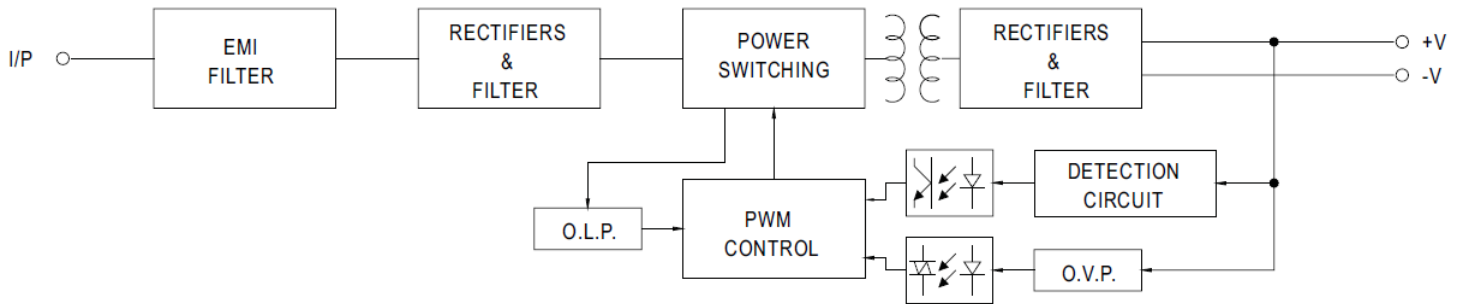


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

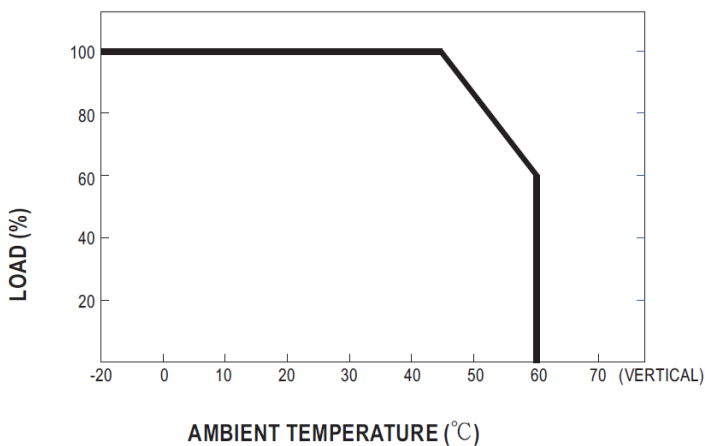
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/N	5,6	-V
2	AC/L	7	LED
3,4	+V	8	+VADJ.

Block Diagram



Derating Curve



NEPEAN
Power

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