NEPEAN Power

X0486 & X0487 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 deidcated team we have become a supplier of choice.

X0486 & X0487 are economically slim 75W Din rail power supply series, that can be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 32mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2.
Designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 89%, the entire series can operate at the ambient temperature between -20°C and 70°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL508, TUV EN60950-1, etc.) make X0486 & X0487 a very competitive power supply solution for industrial applications.

Features

- Universal AC input/full range
- Protections: Short circuit/overload/over voltage/ over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test

Specification

Model			X0486	X0487
Output	DC Voltage		12V	24V
	Rated Current		6.3A	3.2A
	Current Range		0~6.3A	0 ~ 3.2A
	Rated Power		75.6W	76.8W
	Ripple & Noise (max.)	(Note.2)	80mVp-p	120mVp-p
	Voltage Adj. Range		12~14V	24 ~ 28V
	Voltage Tolerance	(Note.3)	±2.0%	±1.0%
	Line Regulation		±0.5%	±0.5%
	Load Regulation		±1.0%	±1.0%
	Setup, Rise Time		1200ms, 60ms/230VAC 2000ms, 60ms/115VAC at full load	
	Hold Up Time (Typ.)		60ms/230VAC 12ms/115VAC at full load	
Input	Voltage Range	(Note.6)	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]	
	Frequency Range		47 ~ 63Hz	
	Efficiency (Typ.)		85.5%	88%
	AC Current (Typ.)		1.45A/115VAC 0.9A/230VAC	
	Inrush Current (Typ.)		20A/115VAC 35A/230VAC	
	Leakage Current		<1mA/240VAC	
Protection	Overload		105 ~ 130% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed	
	Over Voltage		14~17V	29~33V
			Protection type: Shut down o/p voltage, re-power on to recover	
	Over Temperature		Protection type: Shut down o/p voltage, re-power on to recover	
Environment	Working Temp.		-20 ~ +70°C (Refer to "Derating Curve)	
	Working Humidity		20 ~ 95% RH non-condensing	
	Storage Temp., Humidity		-40 ~ +85°C, 10 ~ 95% RH	
	Temp. Coefficient		±0.03%/°C (0 ~ 50°C)	
	Vibration		Component: 10 ~ 500Hz, 2G 10min./1 cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
Safety & EMC (Note.4)	Safety Standards		UL508, TUV EN60950-1 approved	
	Withstand Voltage		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
	Isolation Resistance		I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	
	EMC Emission		Compliance to EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3	
	EMC Immunity		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A	
Others	MTBF		486.2K hrs min. MIL-HDBK-217F (25°C)	
	Dimension		32 x 125.2 x 102mm (W x H x D)	
	Packing		0.51Kg; 28pcs/15.3Kg/1.22CUFT	
Note	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature. 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. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the derating curve for more details. 5. Installation clearances: 40mm on top, 20mm on bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that is still meets EMC directives			