

# X0431 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 NEC class 2 / LPS compliant
- LED indicator for power on
- No load power consumption <0.75W
- 100% full load burn-in test



## Specification

<b>Output</b>	DC Voltage	24V
	Rated Current	1A
	Current Range	0 ~ 1A
	Ripple & Noise (max)	24mV
	Voltage Adj. Range	150mVp-p
	Voltage Tolerance	21.6 ~ 26.4V
	Line Regulation	+or - 1.0%
	Load Regulation	+or - 1.0%
	Setup, Rise Time	+or - 1.0%
	HoldUp Time (Typ.)	+or - 1.0%
<b>Input</b>	Voltage Range	85 ~ 264VAC
	Frequency Range	47 ~ 63Hz
	Efficiency (Typ.)	84%
	AC Current (Typ.)	0.55A/115VAC 0.35A/230VAC
	Inrush Current (Typ.)	COLD START 20A/115VAC 40A/230VAC
<b>Protection</b>	Leakage Current	<1mA / 240VAC
	Overload	105 ~ 160% rated output power
	Over Voltage	Protection type : Constant current limiting, recovers automatically after fault condition is removed 5.75 ~ 6.75V 3.75 ~ 6V / 50mA Protection type : Shut down o/p voltage
<b>Function</b>		Protection type : Shut down o/p voltage, re-power on to recover
	DC OK Active Signal (Max)	18 ~ 27V / 20mA
<b>Environment</b>	Working Temperature	-20 ~ +70 (Refer to output load derating curve)
	Working Humidity	20 ~ 90% RH non-condensing
	Storage Temperature., Humidity	-40 ~ +85 , 10 ~ 95% RH
	Temperature Coefficient	0.03%/ (0 ~ 50 C)
	Vibration	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
<b>Safety &amp; EMC</b>	Safety Standards	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
	EMI Conduction and Radiation	Compliance to EN55011,EN55022 (CISPR22), EN61204-3 Class B
	Harmonic Current	Compliance to EN61000-3-2,-3
	EMS Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024,EN61000-6-1,EN61204-3, light industry level, criteria A
<b>Notes</b>	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.	
	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 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 Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time	