

X0398 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.

X0398 is one economical slim Din rail power supply series, providing up to 156W at Features Universal AC input/full range

24V

230VAC input. This series is adapt to be installed on TS-35/7.5 or TS-35/15 mounting • rails. The body is designed 40mm 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 (≤80% load).

X0398 is designed with metal housing that enhances the unit's power dissipation. With • working efficiency up to 87%, the entire series can operate at the ambient temperature • between -20°C and 60°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 • make X0398 a very competetive power supply solution for industrial applications.

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

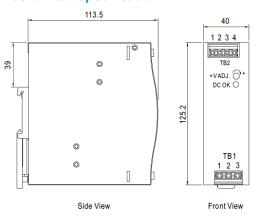
DC Voltage

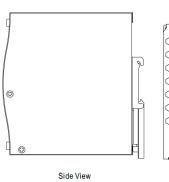
Rated Current 6.5A / 230VAC 5.2A / 115VAC Current Range 0 ~ 6.5A / 230VAC 0 ~ 5.2A / 115VAC		
Current Range 0 ~ 6.5A / 230VAC 0 ~ 5.2A / 115VAC		
Rated Power 156W / 230VAC 125W / 115VAC		
Ripple & Noise (max.) (Note.2) 150mVp-p		
Output Voltage Adj. Range 24 ~ 28V		
Voltage Tolerance (Note.3) ±1.0%		
Line Regulation ±0.5%		
Load Regulation ±1.0%		
Setup, Rise Time 1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load		
Hold Up Time (Typ.) 16ms/230VAC 10ms/115VAC at full load		
Voltage Range (Note.6) 90 ~ 264VAC 120 ~ 370VDC [DC input operation possible by connecting AC/L(+0) AC/N(-)]	
Frequency Range 47 ~ 63Hz	0,710/11()]	
Efficiency (Typ.) 87%		
Input AC Current (Typ.) 2.6A/115VAC 1.7A/230VAC		
Inrush Current (Typ.) 20A/115VAC 35A/230VAC		
Leakage Current <1mA/240VAC		
105 ~ 130% rated output power	amayad / 220\/AC	
Overload Protection type: Constant current limiting, recovers automatically after fault condition is re (Note.7)	emoved / 230VAC	
100 Too Wilder Supply power	amayad / 11EV/AC	
Protection Protection type: Constant current limiting, recovers automatically after fault condition is recovers automatically after fault condition is recovers automatically after fault condition is recovered.	emoved / 115VAC	
Over Voltage		
Protection type: Shut off o/p voltage, re-power on to recover		
Over Temperature Shut down o/p voltage, re-power on to recover Working Temp20 ~ +60°C (Refer to "Derating Curve")		
Working Humidity 20 ~ 90% RH non-condensing		
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Environment Storage Temp., Humidity $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH Temp. Coefficient $\pm 0.03\%$ /°C ($0 \sim 50^{\circ}\text{C}$)		
Component: 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes		
Vibration Vibration Vibration Mounting: Compliance to IEX60068-2-6		
Safety Standards UL508, TUV EN60950-1 approved;(meet EN60204-1)		
Withstand Voltage I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
Safety & EMC Isolation Resistance I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH		
(Note.4) EMC Emission Compliance to EN55022 (CISPR22) Class A, EN61000-3-2, Class A (≤80% Load), EN61	000-3-3	
EMC Immunity Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), heavy is criteria A	industry level,	
MTBF 472.5K hrs min. MIL-HDBK-217F (25°C)		
Others Dimension 40 x 125.2 x 113.5mm (W x H x D)		
Packing 0.6Kg; 20pcs/13Kg/1.6CUFT		
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature		
 Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf paralle 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-constant. 		
with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.	od permanemily	
6. Derating may be needed under low input voltage. Please check the derating curve for more details.		
7. Hiccup mode at 90 ~ 100VAC, recovers automatically after fault condition is removed.		

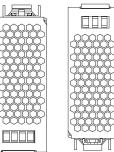
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Power Supply - X0398

Mechanical Specification







Bottom View

Top View

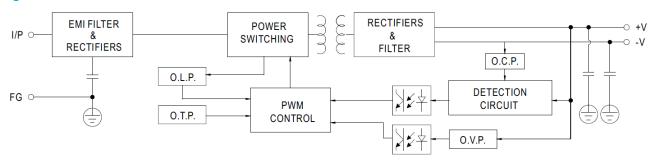
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N or DC-
3	AC/L or DC+

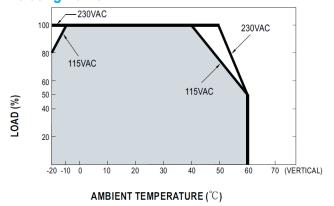
Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1, 2	DC Output -V
3.4	DC Output +V

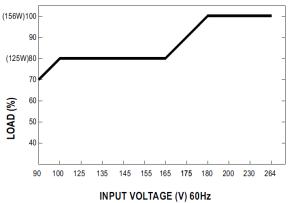
Block Diagram



Derating Curve



Static Characteristics



Installation Instruction

This series fits DIN-RAIL TS35/7.5 or TS35/15. For reference only - not included with unit

