



Industrial 120W, DC POWER 48V

FEATURES

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- Protections: Short circuit | Overload | Over voltage | Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35I7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2 (EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

SPECIFICATIONS

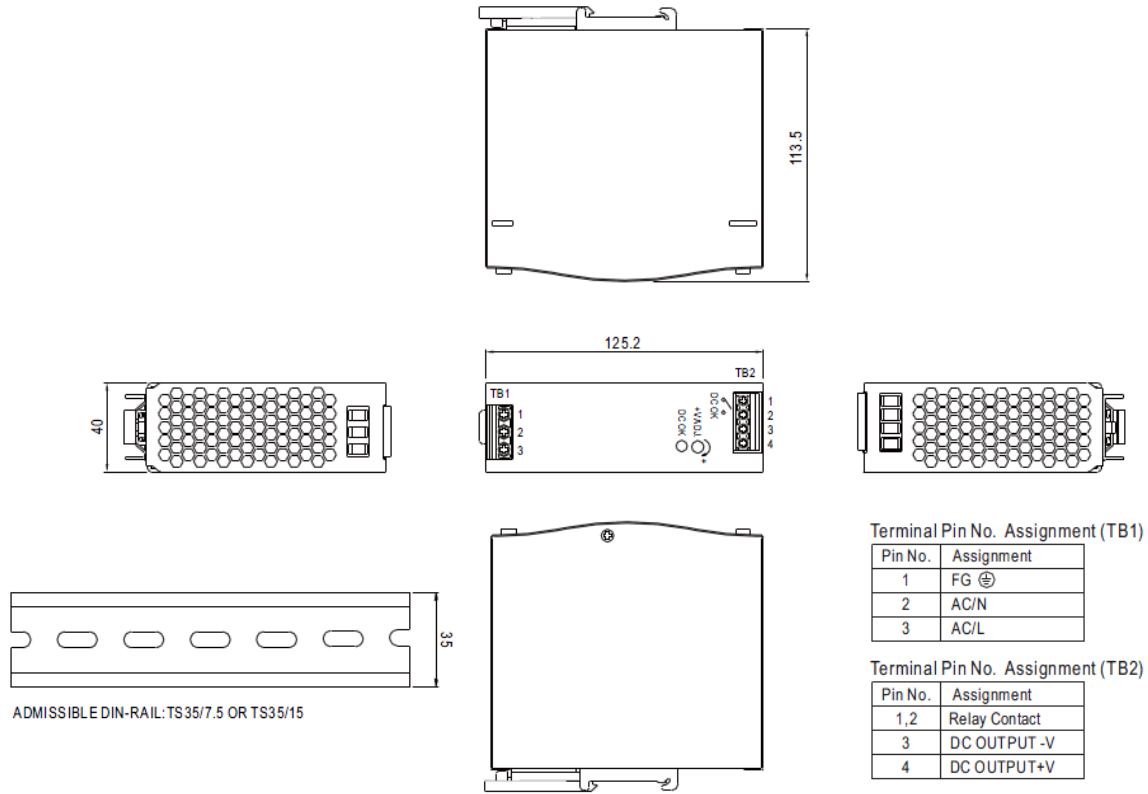


PS-9112 Industrial 120W, DC POWER 48V, Din-Rail with PFC Function, Power Cord		
OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	2.5A
	CURRENT RANGE	0 – 2.5A
	RATED POWER	120W
	PEAK CURRENT	3.75A
	PEAK POWER <small>Note.6</small>	180W (3 sec.)
	RIPPLE & NOISE (max.) <small>Note.2</small>	120mVp-p
	VOLTAGE ADJ. RANGE	48 – 55V
	VOLTAGE TOLERANCE <small>Note.3</small>	± 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.)	20ms/230VAC 20ms/115VAC at full load	
INPUT	VOLTAGE RANGE <small>Note.7</small>	88 – 264VAC 124 – 370VDC
	FREQUENCY RANGE	47 – 63Hz
	POWER FACTOR (Typ.)	0.93/230VAC 0.96/115VAC at full load
	EFFICIENCY (Typ.)	90.5%
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	Normally works within 110 – 150% rated output power for more than 3 seconds and then shut down o/p voltage >150% rated power, constant current limiting with auto-recovery within 3 seconds and shut down o/p voltage after 3 seconds
	OVER VOLTAGE	56 – 65V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	95°C ± 5°C (TSW) detect on heatsink of power switch Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load
ENVIRONMENT	WORKING TEMP.	-25 ~ +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./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
SAFETY & EMC <small>(Note 4)</small>	SAFETY STANDARDS	UL508, TUV EN60950-1, EAC TP TC 004 approved:(meet EN60204-1)
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK: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 EN55011, EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020
OTHERS	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, EAC TP TC 020, SEMI F47, GL approved
	MTBF	289.9K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	40*125.2*113.5mm (W*H*D)
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT

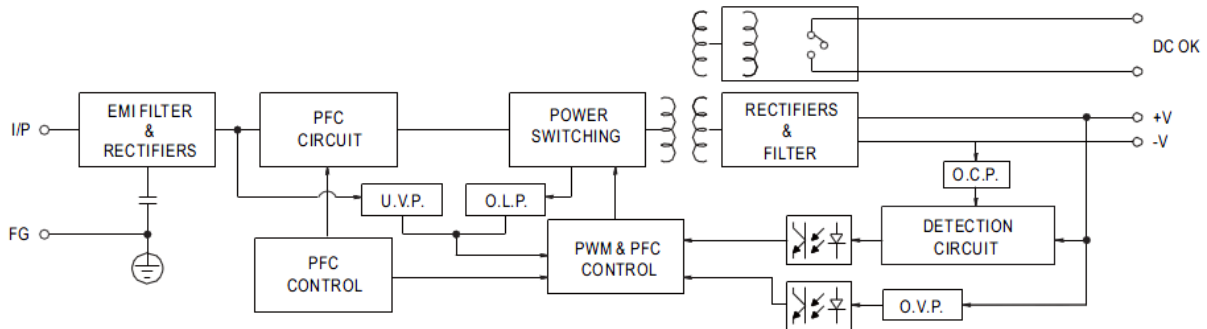
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes 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 directives. Installation clearances : 40mm on top, 20mm on the 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. 3 seconds max., please refer to peak loading curves. Derating may be needed under low input voltage. Please check the derating curve for more details. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
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MECHANICAL SPECIFICATION

Unit : mm



BLOCK DIAGRAM



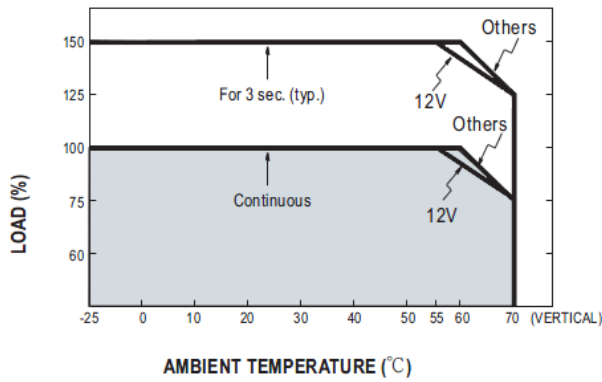
DC OK RELAY CONTACT

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings	30V/1A resistive load.

PEAK LOADING



DERATING CURVE



OUTPUT DERATING VS INPUT VOLTAGE

