

PW-230AC48-150

AC/DC CONVERTER TO 48VDC

■ Features :

- Auto switched 88 ~ 264VAC input
- Built-in passive PFC choke
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in cooling Fan ON-OFF control
- LED indicator for power on
- Fixed switching frequency at 75KHz
- 2 years warranty



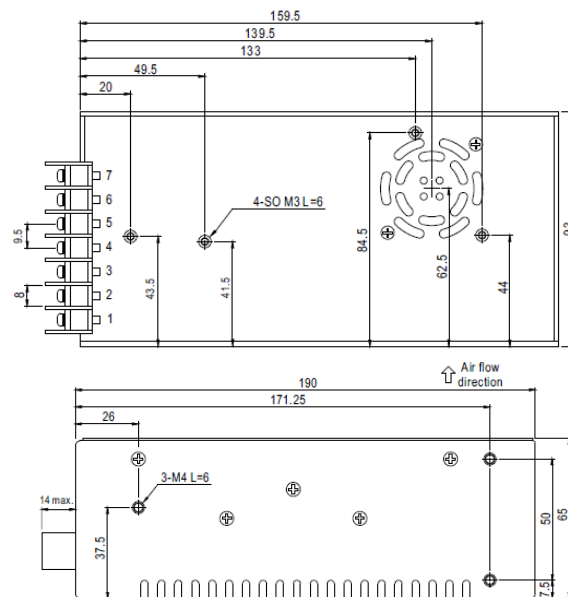
OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	5A
	CURRENT RANGE	0~5A
	RATED POWER	240W
	RIPPLE & NOISE (max) Note.2	240mVp-p
	VOLTAGE ADJ. RANGE	41~56V
	VOLTAGE TOLERANCE Note.3	1,00%
	LINE REGULATION	1,00%
	LOAD REGULATION	1,00%
	SETUP, RISE TIME	1000ms, 20ms at full load
INPUT	HOLD UP TIME (Typ.)	36ms at full load
	VOLTAGE RANGE	88~132VAC / 176~264VAC, auto switch
	FREQUENCY RANGE	47~63Hz
	EFFICIENCY (Typ.)	87%
	AC CURRENT (Typ.)	5A/115VAC 2.5A/230VAC
	INRUSH CURRENT (Typ.)	15A/115VAC 30A/230VAC
PROTECTION	LEAKAGE CURRENT	<2mA/240VAC
	OVERLOAD	105 ~ 135% rated output power. Protection type : Hiccup mode, recovers automatically after fault condition is removed.
FUNCTION	OVER VOLTAGE	57.6 ~ 67.2V
	FAN CONTROL, O.T.P	RT1≥40°C FAN ON, ≤35°C FAN OFF, ≥70°C output shutdown
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP. HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	± 0.03%/I (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC (Note.4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved (7.5V Design refer to TUV EN60950-1)
	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 & RADIATION	Compliance to EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4- 2,3,4,5,6,8,11; ENV50204, light industry level, criteria A
	MTBF	179.3K hrs min. MIL-HDBK-217F (25°C)
OTHERS	DIMENSION	190*93*65mm (L*W*H)
	PACKING	1.2Kg; 12pcs/15.3Kg/0.79CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & 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. 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.	

ACDC Converter

SPECIFICATIONS NOTES

■ Mechanical Specification

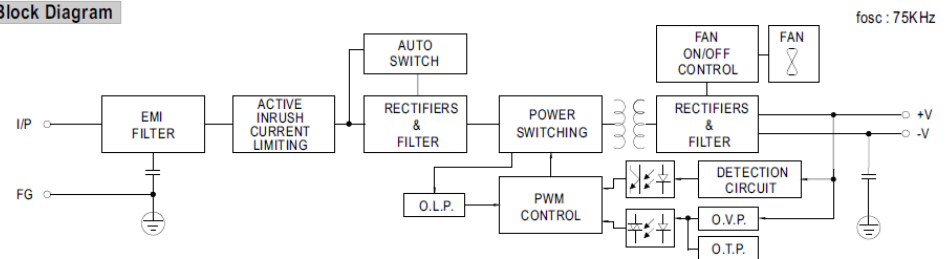
Case No. 911 Unit:mm



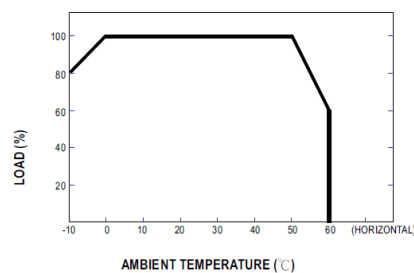
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG		

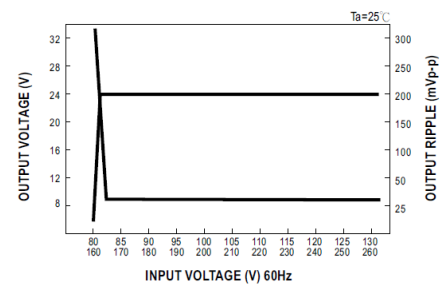
■ Block Diagram



■ Derating Curve



■ Static Characteristics (24V)



PW-230AC48-150 REFERENCES

PW-230AC48-150	External converter 110/230v to 48v 150W, AC cable Europe
PW-230AC48-150-UK	External converter 110/230v to 48v 150W, AC cable UK
PW-230AC48-150-USA	External converter 110/230v to 48v 150W, AC cable USA



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