



# PW-230AC48-320-UK

## AC/DC CONVERTER TO 48VDC

### Features

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC Fan
- Built-in fan speed control
- Fixed switching frequency at 100KHz



### Specification



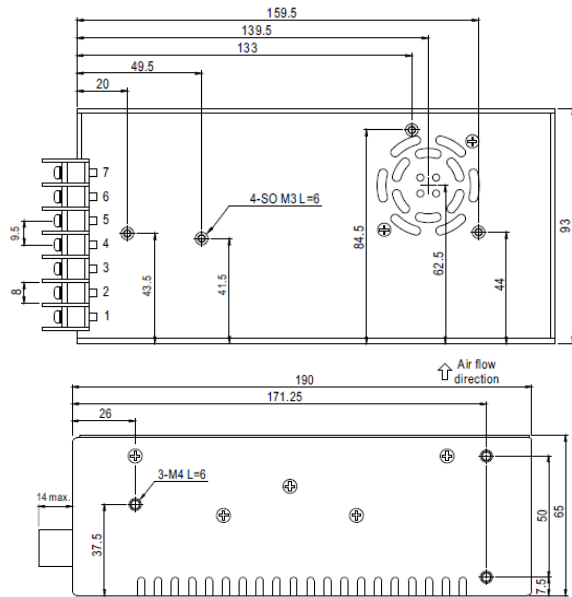
MODEL		PW-230AC48-320-UK		
OUTPUT	DC VOLTAGE	48V		
	RATED CURRENT	6.7A		
	CURRENT RANGE	0 ~ 6.7A		
	RATED POWER	321.6W		
	RIPPLE & NOISE (max.)	240mVp-p		
	VOLTAGE ADJ. RANGE	41 ~ 56V		
	VOLTAGE TOLERANCE	± 1.0%		
	LINE REGULATION	± 0.2%		
	LOAD REGULATION	± 0.5%		
	SETUP, RISE TIME	800ms, 50ms/230VAC      2500ms, 50ms/115VAC at full load		
HOLD UP TIME (Typ.)	16ms/230VAC      16ms/115VAC at full load			
INPUT	VOLTAGE RANGE	88 ~ 264VAC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.95/230VAC      PF>0.98/115VAC at full load		
	EFFICIENCY (Typ.)	89%		
	AC CURRENT (Typ.)	115VAC	2.5A	5A
		230VAC	1.5A	2.5A
	INRUSH CURRENT (Typ.)	20A/115VAC      40A/230VAC		
LEAKAGE CURRENT	<1mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	57.6 ~ 67.2V Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down		
ENVIRONMENT	WORKING TEMP.	-20 ~ +65°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1 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 EN55032 (CISPR32) Class B, EN61000-3-2, -3		
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A		
	MTBF	207K hrs min.    MIL-HDBK-217F (25°C)		
	DIMENSION	215*115*50mm (L*W*H)		
	PACKING	1.1Kg; 12pcs/14Kg/0.9CUFT		



# Specifications Notes

## Mechanical Specification

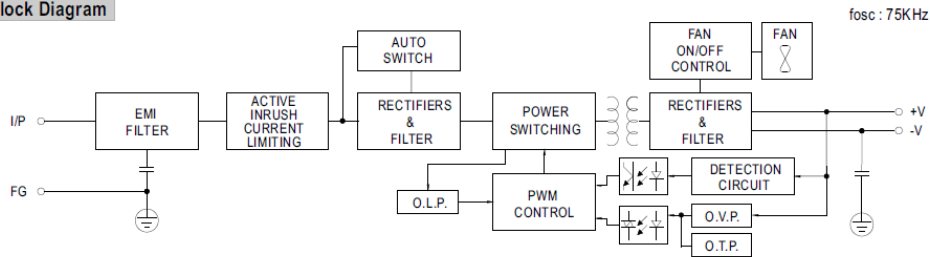
Case No. 911 Unit:mm



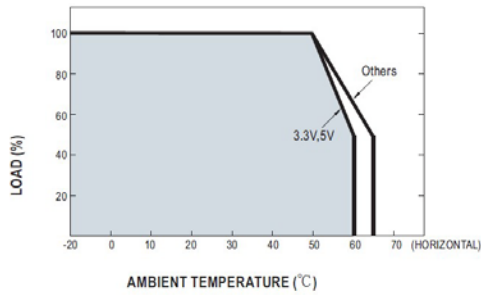
Terminal Pin No. Assignment

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

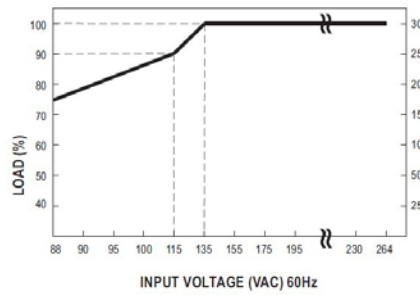
## Block Diagram



## Derating Curve



## Static Characteristics (24V)



## References

<b>PW-230AC48-320-UK</b>	240W AC Input: 88~264VAC / DC Output: 48VDC / 6.7A_320W Temperature: -30~+70C. Converter with UK power cord. metal enclosure to protect cable, with FAN . No LSZH (Low Smoke Zero Halogene) cable.
<b>PW-230AC48-320-UK-LSZH</b>	240W AC Input: 88~264VAC / DC Output: 48VDC / 6.7A_320W Temperature: -30~+70C. Converter with UK power cord. metal enclosure to protect cable, with FAN .Compliant LSZH (Low Smoke Zero Halogene) cable.

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