

Features

- Low cost
- High reliability
- 105°C output capacitor
- Universal AC input range
- High efficiency, low temperature rise
- Soft-start circuit, limiting AC surge current
- Short circuit, overload, battery protected
- Compact size, light weight
- 100% full load burn-in test
- Built in EMI filter, low ripple noise
- Battery low / Battery polarity protections



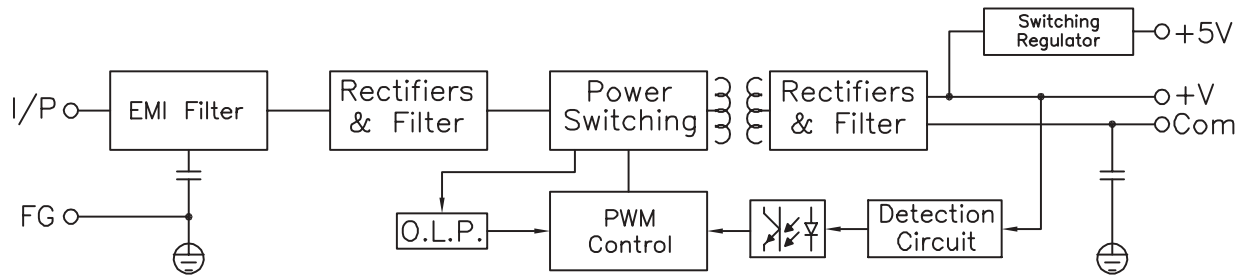
	CH1	CH2
DC output voltage	12V	5V
Output V. tolerance	±1%	±3%
Output rated current	3A	3A
Output current range	0-4A	0-4A
Ripple & noise	150mVp-p	100mVp-p
Line regulation	±0.5%	±0.5%
Load regulation	±0.5%	±0.5%
DC output power	51W	
Efficiency	74%	
DC voltage adj.	±10%	fixed
Input voltage range	88~264VAC 47~63Hz; 124~370VDC	
AC current	1.6A/115V 1A/230V	
Inrush current	cold start 20A/115V 40A/230V	
Leakage current	<1mA/240VAC	
Overload protection	105%~150% / 230 VAC, Hiccup mode, recovers automatically after fault condition is removed	
Over voltage protection	CH1: 115%~135% type: pulse by pulse	
Temperature coefficient	±0.03% / °C (0~50°C)	
Set up, rise, hold up time	1.6s, 50ms, 16ms/115VAC 800ms, 50ms, 60ms / 230VAC	
Vibration	10~500Hz, 2G 10 min./1 cycle, period of 60 min. each axes	
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC, for 1 min.	
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 500VDC / 100M Ohms min.	
Working temp., humidity	-10°C~+60% (refer to output derating curve), 20%-90% RH	
Storage temp., humidity	-20°C~+85°C, 10%-95% RH	
Dimensions	6.26x3.82x1.50 inches (159x97x38 mm) Case: 901	
Weight	1.26 lb. (0.57 Kgs)	
Safety standards	UL1950, TUV EN60950 approved	
EMC standards	CISPR22 (EN55022) CLASS B, EN61000-3-2,3; EN61000-4-2,3,4,5,6,8,11; ENV50204	

Notes:

1. All parameters are specified at 230VAC input, rated load, 25°C, 70% RH ambient
2. Tolerance includes set up tolerance, line regulation, load regulation
3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF & 47 uF capacitor
4. Line regulation is measured from low line to high line at rated load
5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load
6. Each output provides up to maximum current, but total load can not exceed maximum output power

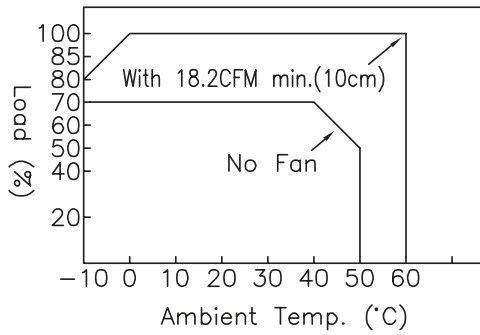
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Block Diagram

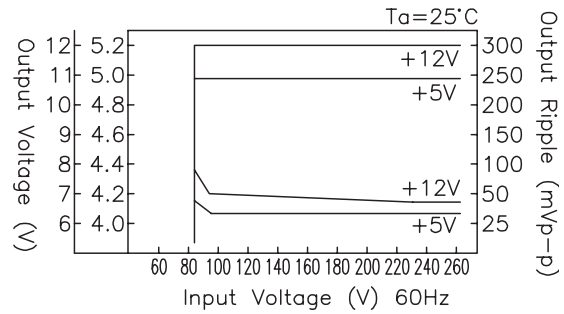


fosc: 45KHz

Output Derating



Static Characteristics



Dimensions (mm)

- Case: 901
 Terminal Pin No. Assignment
 Pin 1: AC Input
 Pin 2: AC Input
 Pin 3: FG
 Pin 4: DC Output Com
 Pin 5: DC Output +V
 Pin 6: NC
 Pin 7: DC Output Com
 Pin 8: DC/DC Output +5V

