



55W Single Output with 5V,4A DC-DC Converter

ADS-55 series



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 2 years warranty

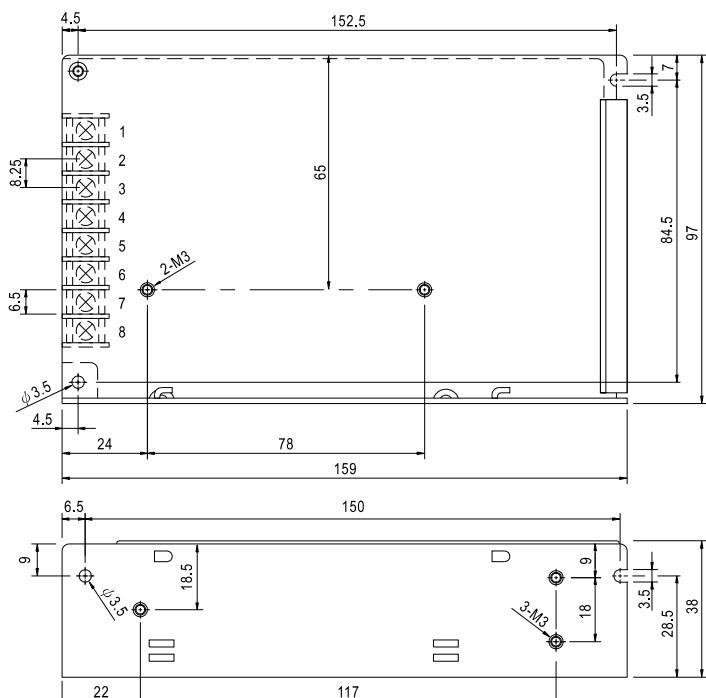


SPECIFICATION

MODEL	ADS-5512		ADS-5524	
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1
	DC VOLTAGE	12V	5V	24V
	RATED CURRENT	3A	3A	2A
	CURRENT RANGE	0 ~ 4A	0 ~ 4A	0 ~ 2.5A
	RATED POWER	51W		58W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	CH1:10.8 ~ 13.2V		CH1:21.6 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	±1.0%	±3.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±1.0%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%
INPUT	SETUP, RISE TIME	1400ms, 50ms/230VAC 3300ms, 50ms/115VAC at full load		
	HOLD UP TIME (Typ.)	80ms/230VAC	16ms/115VAC at full load	
	VOLTAGE RANGE	88 ~ 264VAC	124 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	76%		79%
	AC CURRENT (Typ.)	1.6A/115VAC	1A/230VAC	
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC		
	LEAKAGE CURRENT	<1mA / 240VAC		
	OVERLOAD	105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	CH1:13.8 ~ 16.2V		CH1:27.6 ~ 32.4V
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C) on CH1 output		
	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		
	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 / 25°C / 70% RH		
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A		
OTHERS	MTBF	276.3K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	159*97*38mm (L*W*H)		
	PACKING	0.57Kg; 24pcs/13.7Kg/0.75CUFT		
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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)			

■ Mechanical Specification

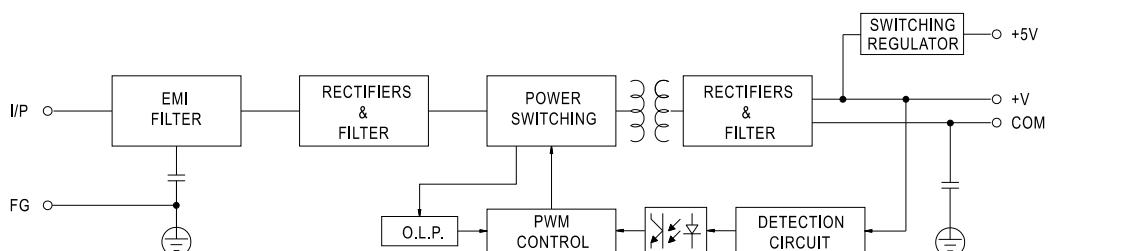
Case No. 901 Unit:mm



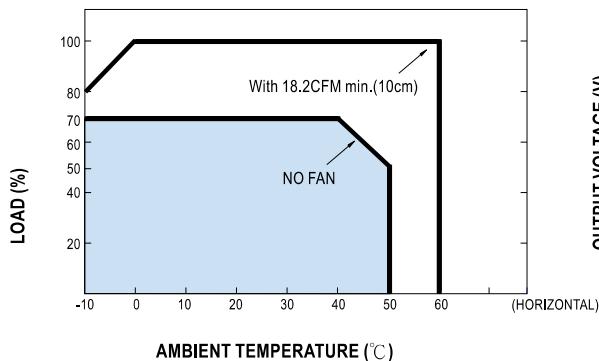
Terminal Pin No. Assignment :

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5	DC OUTPUT +V
2	AC/N	6	NC
3	FG \pm	8	DC/DC OUTPUT +5V
4,7	DC OUTPUT COM		

■ Block Diagram



■ Derating Curve



■ Static Characteristics (5512)

