MEAN WELL

100W AC-DC ATX Power Adaptor

ATX-100

Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Built-in active PFC function, PF>0.95
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- No load power consumption < 1W @240VAC
- 2 years warranty

CE

SPECIFICATION

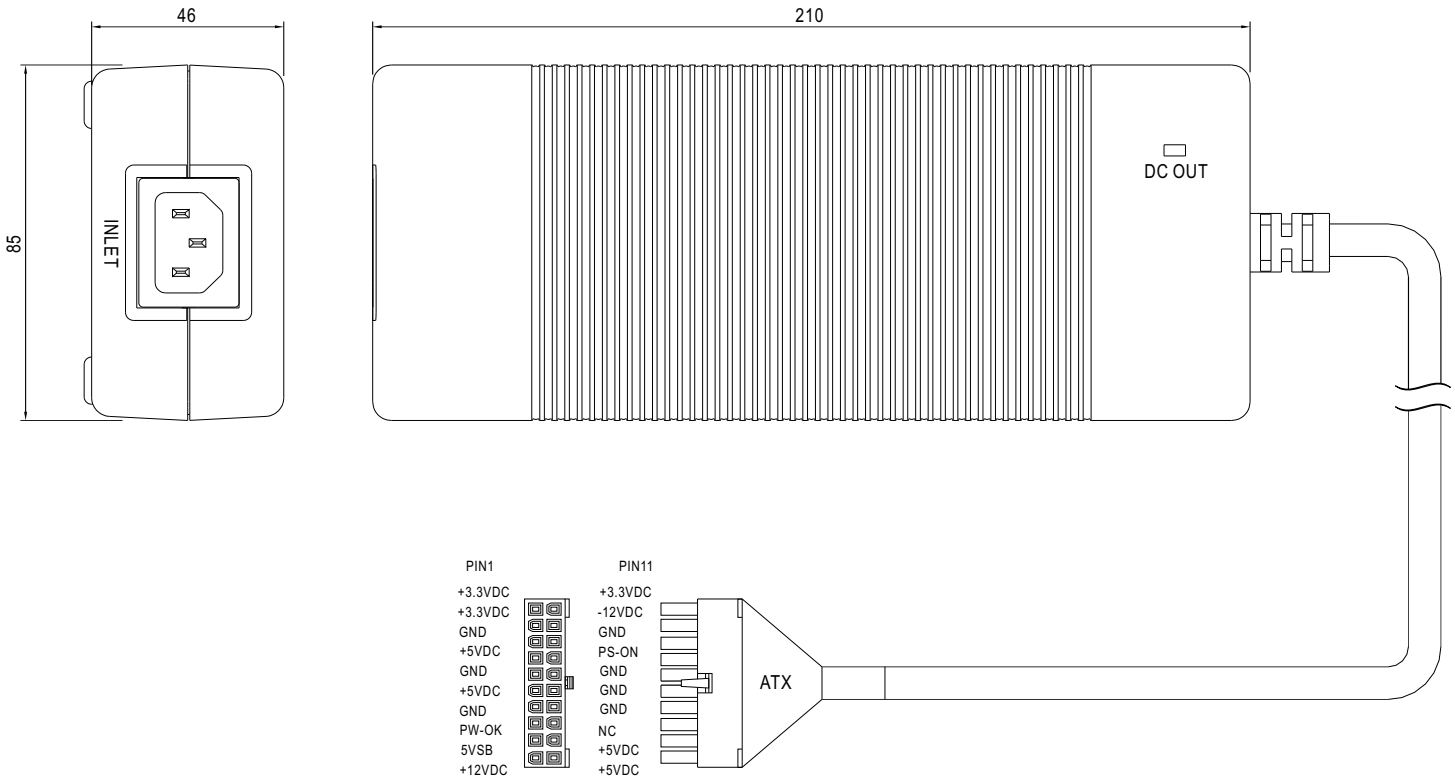
MODEL		ATX-100				
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH5
	DC VOLTAGE	3.3V	5V	12V	-12V	5VSB
	RATED CURRENT	5A	6A	3.75A	0.3A	1A
	CURRENT RANGE	0 ~ 6A	0 ~ 8A	1 ~ 7A	0 ~ 0.5A	0 ~ 2A (Note.7)
	RATED POWER Note.8,9	50W		------		
		100W(continue), 125W(7min.), 150W(3min.)				
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	120mVp-p	120mVp-p	100mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	±5.0%	±5.0%	±10%	±5.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±10%	±5.0%
	SETUP, RISE TIME	3000ms, 80ms at full load				
	HOLD UP TIME(Typ.)	16ms at full load				
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95 at full load				
	EFFICIENCY(Typ.)	80%				
	AC CURRENT (Typ.)	1.4A/115AVC 0.7A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START < 60A at 230VAC				
	LEAKAGE CURRENT (max.)	<2mA / 240VAC				
PROTECTION	OVERLOAD	6.2A min.	8.2A min.	7.2A min.	------	------
		Protection type : Shut down o/p voltage(except 5VSB), re-power on to recover				
	OVER VOLTAGE	3.7 ~ 4.1V	5.7 ~ 6.5V	13.2 ~ 14.4V	------	------
		Protection type : Shut down o/p voltage(except 5VSB), re-power on to recover				
	OVER TEMPERATURE	100℃±5℃ (TSW1:detect on heatsink of power transistor)				
		Protection type : Shut down o/p voltage(except 5VSB), re-power on to recover				
SIGNAL FUNCTION	POWER OK	The TTL compatible signal out with 100 ~ 500ms delay after set up				
	PS-ON	Power ON:PS-ON="Low" or "<0.8V"; Power OFF:PS-ON="Hi" or ">2V"				
ENVIRONMENT	WORKING TEMP.	0 ~ +50℃ (Refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.05%/℃ (0 ~ 60℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note 6)	SAFETY STANDARDS	Design refer to UL60950-1, TUV EN60950-1				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms/500VDC 25℃ 70%RH				
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B, EN61204-3				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A				
OTHERS	MTBF	152Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	210*85*46mm(L*W*H)				
	PACKING	1.12Kg; 12pcs/14.5Kg/0.95CUFT				

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. Line regulation is measured from low line to high line at rated load.
5. Each output power up to maximum current, but total load cannot exceed maximum output power(100W).
6. 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.
7. 5VSB peak load 2A< 10sec.
8. 5V,3.3V total power less than 50W.
9. 125W peak load duty 7min./hr, 150W peak load duty 3min./hr.
10. Derating may be needed under low input voltage. Please check the derating curve for more details.
11. 2 years warranty, base on power supply operating 12hrs/day.

■ Mechanical Specification

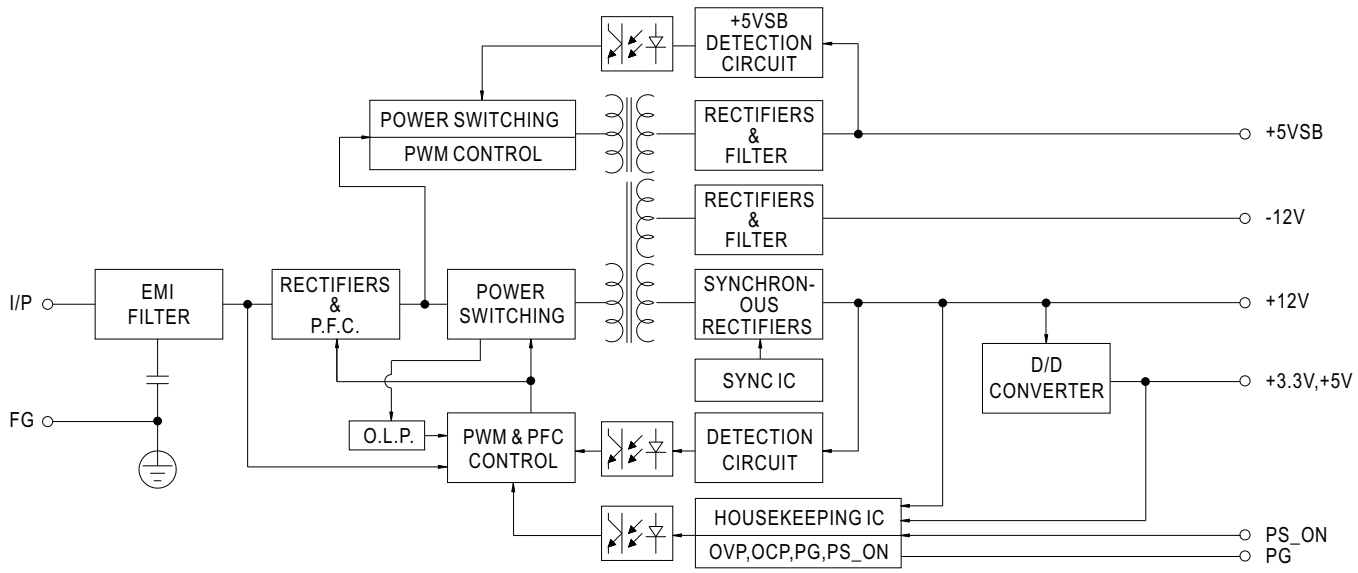
Case No.961A Unit:mm



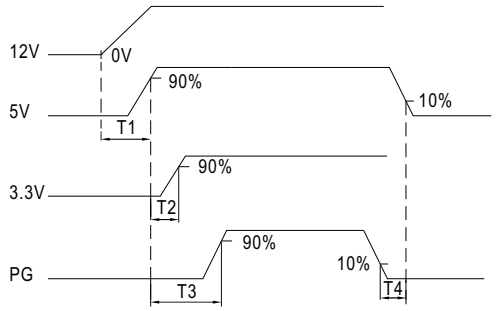
Type: MOLEX 39-01-2200 or equivalent
L=650mm±50mm

■ Block Diagram

fosc : 88KHz

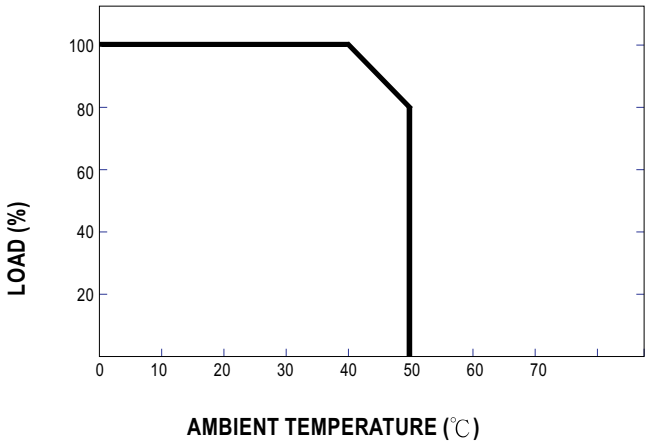


■ Sequence



T1 : 0~20ms (±20%)
T2 : 0~15ms(±20%)
T3 : 100~500ms
T4 : 0~30ms

■ Derating Curve



■ Output Load VS Input Voltage