

- Features :
- Universal AC input / Full range
  - Built in active PFC circuit
  - Protections: Short circuit / Overload / Over voltage / Over temperature
  - Free air convection for 150W and forced air convection for 225W
  - High power density 4.7w/in<sup>3</sup>
  - Active AC surge current limiting
  - U-bracket low profile:38mm
  - 3 years warranty

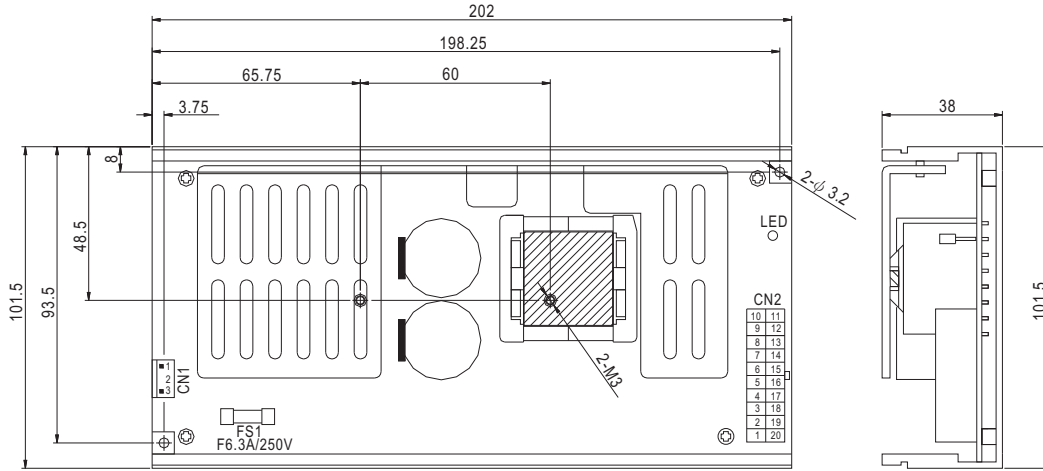


**SPECIFICATION**

MODEL		USP-225-36FU		
OUTPUT	DC VOLTAGE	36V		
	RATED CURRENT	6.2A		
	CURRENT RANGE	0 ~ 6.2A		
	RATED POWER	223.2W		
	RIPPLE & NOISE (max.) Note.2	200mVp-p		
	VOLTAGE ADJ. RANGE	32.4 ~ 39.6V		
	VOLTAGE TOLERANCE Note.3	±2.0%		
	LINE REGULATION	±0.5%		
	LOAD REGULATION	±1.0%		
	SETUP, RISE TIME	500ms, 30ms/230VAC    1200ms, 30ms/115VAC at full load		
HOLD UP TIME (Typ.)	22ms/230VAC    22ms/115VAC at full load			
INPUT	VOLTAGE RANGE	90 ~ 264VAC    127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.93/230VAC    PF>0.97/115VAC at full load		
	EFFICIENCY (Typ.)	85%		
	AC CURRENT (Typ.)	115VAC	3.3A	
		230VAC	1.6A	
	INRUSH CURRENT (Typ.)	15A/115VAC    30A/230VAC		
LEAKAGE CURRENT	<3.5mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	39.6 ~ 48.6V Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	95°C ±5°C (RTH2 : Detect on heatsink of power transistor) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down		
ENVIRONMENT	WORKING TEMP.	-20 ~ +65°C (Refer to output load 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	Design refer to UL60950-1, 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		
OTHERS	MTBF	220K hrs min.    MIL-HDBK-217F (25°C)		
	DIMENSION	202*101.5*38mm (L*W*H)		
	PACKING	0.85Kg; 16pcs/14.6Kg/0.76CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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.</p> <p>5. MEANWELL reserve the right to adjust this SPEC when deemed appropriated</p>			

**Mechanical Specification**

Case No. 928 Unit:mm



AC Input Connector (CN1) : JST B3P-VH or equivalent

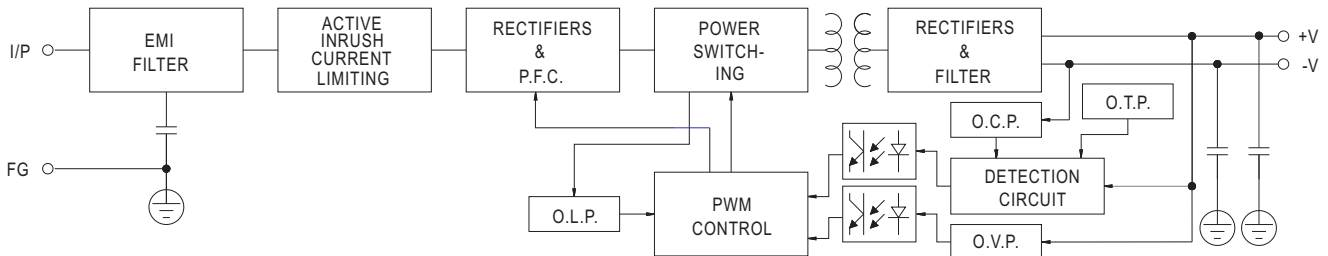
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/L		

DC Output Connector (CN2) : MOLEX 39-29-9206 or equivalent

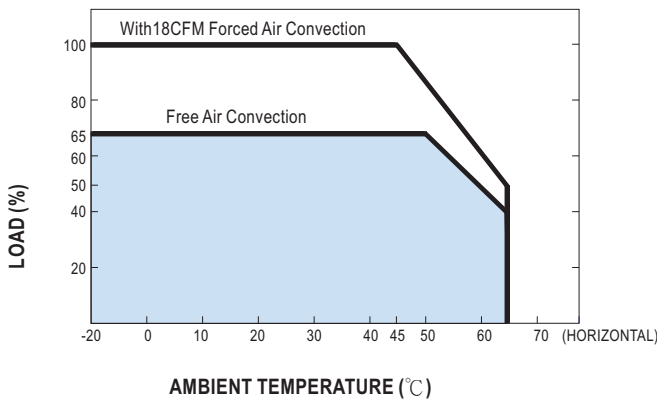
Pin No.	Assignment	Mating Housing	Terminal
1~5	+V	MOLEX 5557 or equivalent	MOLEX 5556 or equivalent
6~15	-V		
16~20	+V		

**Block Diagram**

fosc : 100KHz



**Derating Curve**



**Static Characteristics (5V)**

