



Power Supply PSU48-1500



■ Features :

- AC input active surge current limiting
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Built-in constant current limiting circuit
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty



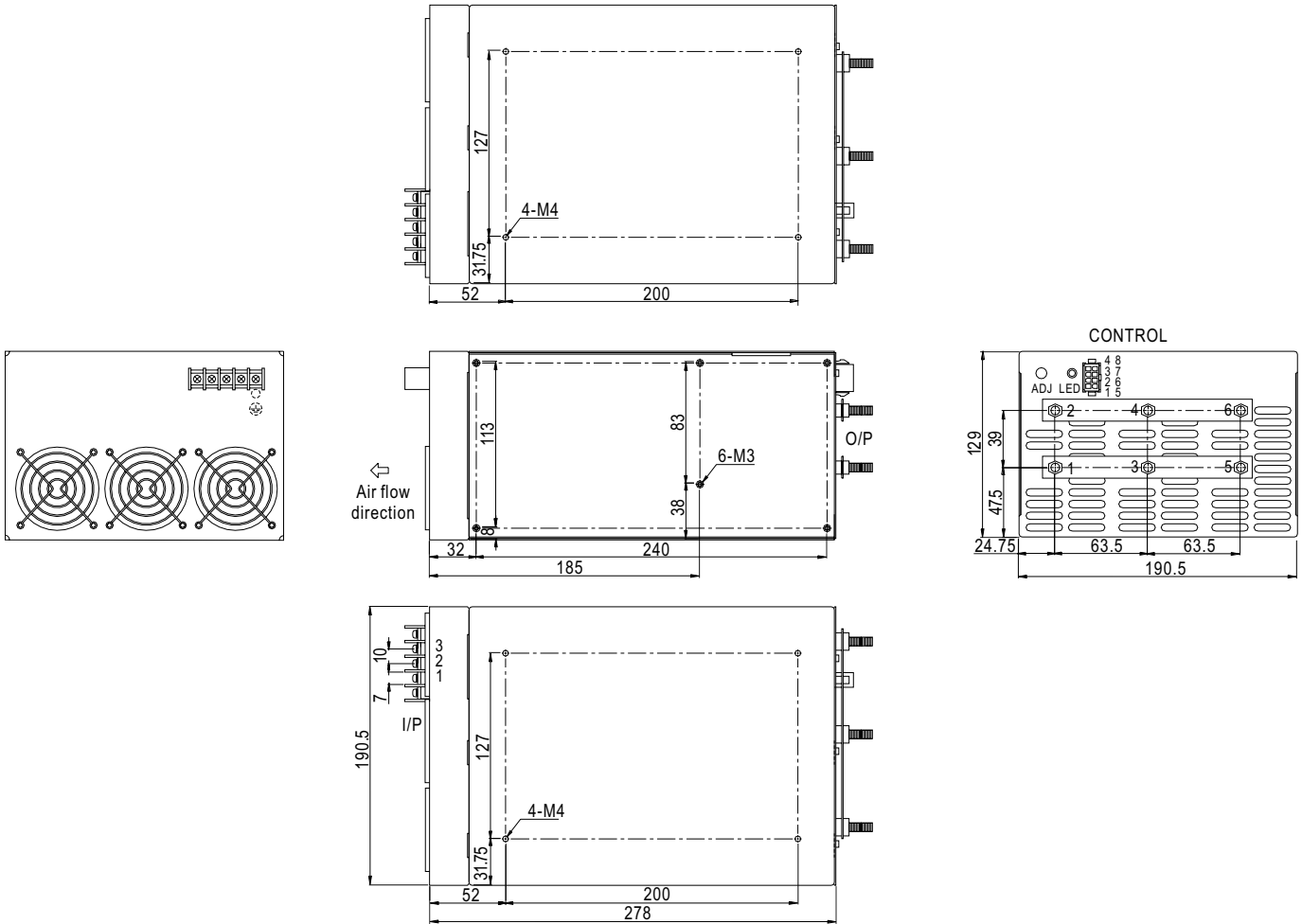
SPECIFICATION

MODEL		PSU48-1500	
OUTPUT	DC VOLTAGE	48V	
	RATED CURRENT	28.5A	
	CURRENT RANGE	0 ~ 28.5A	
	RATED POWER	1368W	
	PEAK LOAD <small>Note.4</small>	1500W	
	RIPPLE & NOISE (max.) <small>Note.2</small>	200mVp-p	
	VOLTAGE ADJ. RANGE	41 ~ 56V	
	VOLTAGE TOLERANCE <small>Note.3</small>	± 1.0%	
	LINE REGULATION	± 0.2%	
	LOAD REGULATION	± 0.5%	
SETUP, RISE, HOLD TIME	1.5s, 50ms, 15ms/230VAC at full load		
INPUT	VOLTAGE RANGE	176 ~ 264VAC	248 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR	PF>0.95/230VAC at full load	
	EFFICIENCY (Typ.)	86%	
	AC CURRENT	10.5A/230VAC	
	INRUSH CURRENT (max.)	100A/230VAC	
LEAKAGE CURRENT	<3.5mA / 240VAC		
PROTECTION	OVER LOAD	115 ~ 140% rated output power Protection type : Constant current limiting, 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	95°C (TSW1) Detect on the heatsink of PFC MOSFET 90°C (TSW2) Detect the winding of output choke Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	REMOTE CONTROL	RC+/RC-: 0 ~ 0.8V=power on ; 4 ~ 10V=power off sink current <30mA	
ENVIRONMENT	WORKING TEMP.	-10 ~ +65°C (Refer to output load 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)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
SAFETY & EMC <small>(Note 5)</small>	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	
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B	
	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	43.4K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	278*129*190.5mm (L*W*H)	
	PACKING	7.4Kg; 2pcs/15.5Kg/1.28CUFT	
NOTE	<ol style="list-style-type: none"> 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. 10% Duty cycle maximum within every 30 seconds(max.). Average output power should not exceed the rated power. 5. 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. 		



Mechanical Specification

Case No. 925 Unit:mm



AC Input Terminal Pin. No Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG \perp

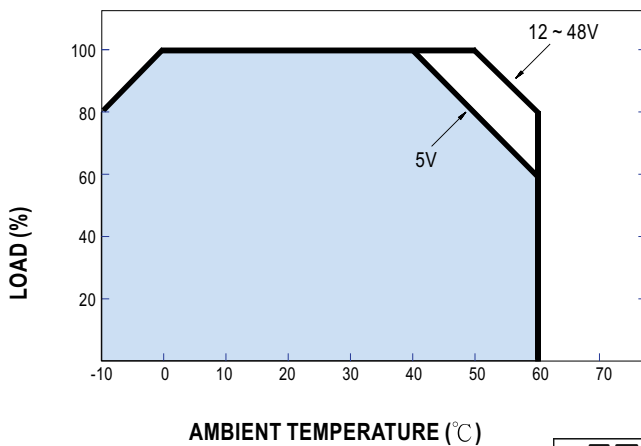
DC Output Terminal Pin. No Assignment

Pin No.	Assignment
1,3,5	DC OUTPUT +V
2,4,6	DC OUTPUT -V

Control Pin. No Assignment : MOLEX 5559-NP uses 5558male crimp terminal

Pin No.	Assignment	Pin No.	Assignment	Mating connector	Terminal
1	NC	5	NC	MOLEX 5557-NR	MOLEX 5556 Female crimp Terminal receptacle
2	-S	6	NC		
3	G	7	+S		
4	RC-	8	RC+		

Derating Curve



Output Derating VS Input Voltage

