Power Supply PSU48-1000

■ Features :

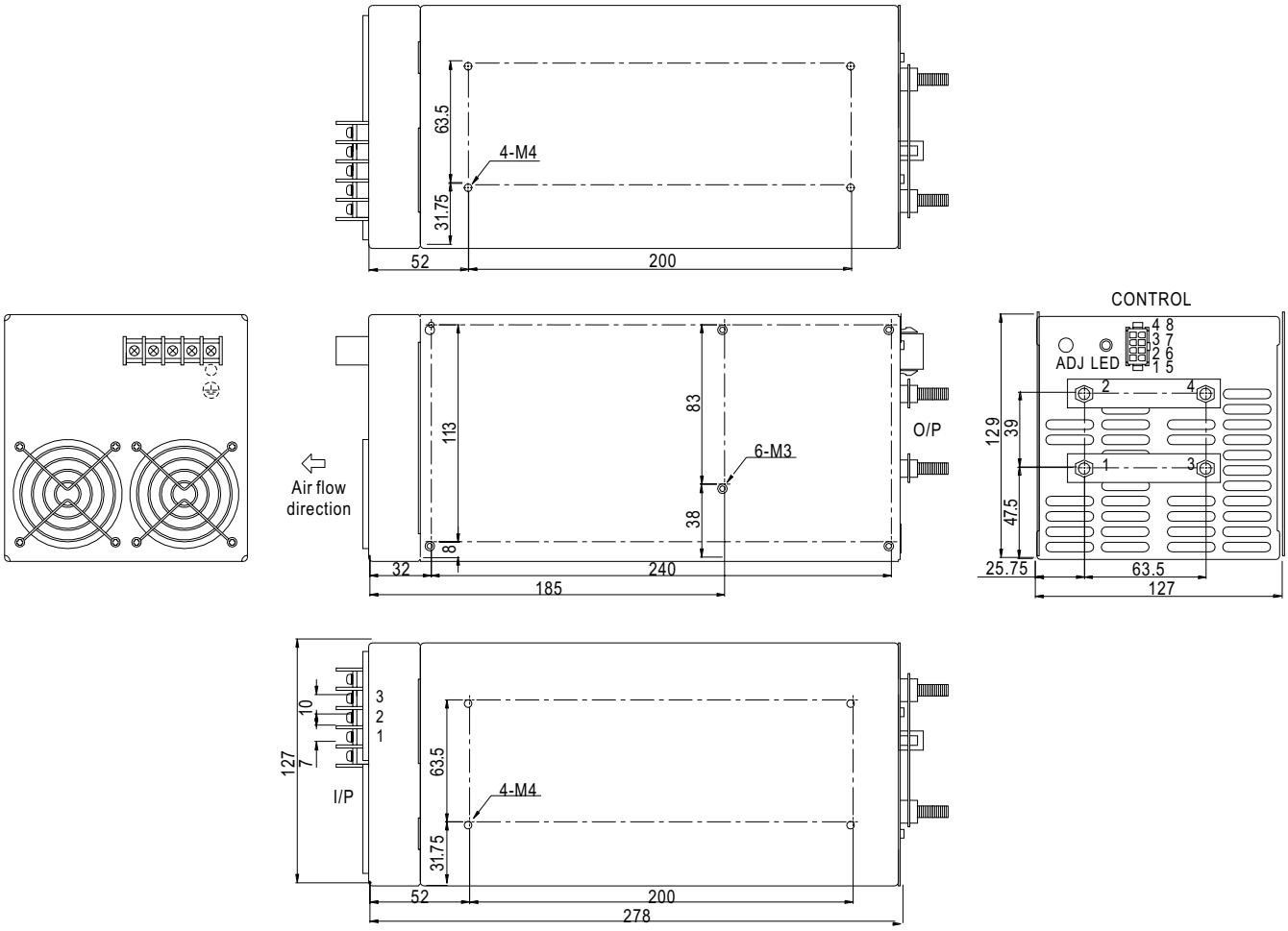
- Universal AC input / Full range
- AC input active surge current limiting
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Built-in constant current limiting circuit
- Current sharing up to 2 units or 2000W
- Built-in remote ON-OFF control
- Built-in remote sense function
- Built-in active current sharing and parallel function
- 3 years warranty

SPECIFICATION

MODEL		PSU48-1000
OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	19A
	CURRENT RANGE	0 ~ 19A
	RATED POWER	912W
	PEAK LOAD Note.4	1000W
	RIPPLE & NOISE (max.) Note.2	200mVp-p
	VOLTAGE ADJ. RANGE	41 ~ 56V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 0.2%
	LOAD REGULATION	± 0.5%
	SETUP, RISE, HOLD TIME	1.5s, 50ms, 15ms/230VAC 1.5s, 50ms,1.5ms/115VAC at full load
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR	PF>0.95/230VAC PF>0.95/115VAC at full load
	EFFICIENCY (Typ.)	86%
	AC CURRENT	14A/115AVC 7A/230VAC
	INRUSH CURRENT (max.)	40A/115VAC 70A/230VAC
	LEAKAGE CURRENT	<2mA / 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℃ (TSW1) Detect on the heatsink of PFC MOSFET 90℃(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 <20mA
ENVIRONMENT	WORKING TEMP.	-10 ~ +65℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC (Note 5)	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	59.6K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	278*129*127mm (L*W*H)
	PACKING	5.2Kg; 3pcs/16.3Kg/1.42CUFT
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. 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. 6. Derating may be needed under low input voltages. Please check the derating curve for more details.	

■ Mechanical Specification

Case No. 924 Unit:mm



AC Input Terminal Pin. No. Assignment

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

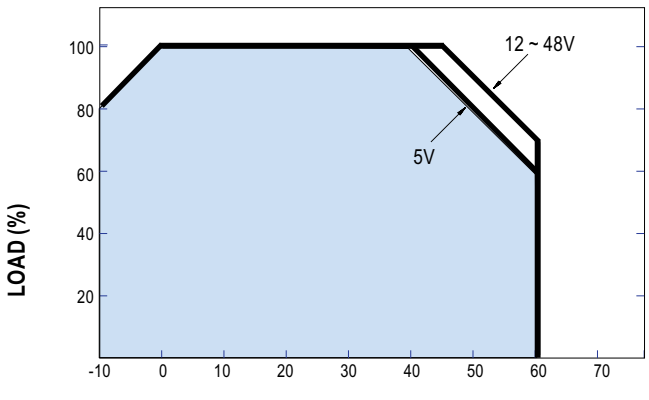
DC Output Terminal Pin. No Assignment

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

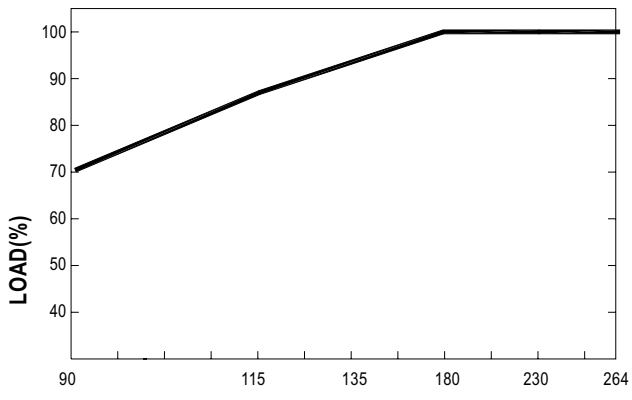
Control Pin. No Assignment : MOLEX 5559-NP uses 5558male crimp terminal

Pin No.	Assignment	Pin No.	Assignment	Mating connector	Terminal
1	P(Current share)	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



Bregnerødvej 127
DK-3460 Birkerød
Tel. +45 4582 4440
Fax. +45 4582 5550
JVL Industri Elektronik A/S