

## **FEATURES**

- 3 Year Warranty
- 100% Full Load Burn-In Tested
- Universal AC Input / Full Range
- Built-In Remote Sense Function
- Built-In Remote ON/OFF Control
- Built-In Active PFC Function, PF > 0.95
- Current Sharing up to 2 units or 2000W
- AC Input Active Surge Current Limiting
- Built-In Constant Current Limiting Circuit
- Built-In Active Current Sharing and Parallel Function





	based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.				
W	e reserve the right to change specifications based on technological advances.				
INPUT SPECIFICATIONS					
Input Voltage Range (See Note 6)	90 ~ 264VAC (127 ~ 370VDC)				
Input Frequency	47 to 63Hz				
AC Current (typical)	11.2A @ 115VAC 5.6A @ 230VAC				
Inrush Current (typical)	32A @ 115VAC 63A @ 230VAC				
Leakage Current	< 2mA @ 240VAC				
Power Factor (typical)	0.96 @ 230VAC				
Remote ON/OFF Control	RC+/RC-: 0 ~ 0.8V = power on; 4 ~ 10V = power off sink current < 20mA				
OUTPUT SPECIFICATIONS					
Output Voltage	See Table				
Output Power	See Table				
Voltage Tolerance (See Note 3)	5V output: 6%, 12V output: 3%, 13.5V & 15V outputs: 2%, 24V - 48V outputs: 1%				
Voltage Adjustment Range	See Table				
Line Regulation	5V output: 0.5%, 12V - 15V outputs: 0.3%, 24V - 48V outputs: 0.2%				
Load Regulation	5V output: 2.0%, 12V - 48V outputs: 0.5%,				
Output Current	See Table				
Ripple & Noise (max) (See Note 2)	5V output: 100mVp-p; 12V - 27V outputs: 150mVp-p; 48V output: 200mVp-p				
Setup, Rise Time	1500ms, 50ms @ 230VAC 1500ms, 50ms @ 115VAC and full load				
Hold Up Time (typical)	24ms @ 230VAC 24ms @ 115VAC and full load				
Temperature Coefficient	±0.03%/°C (0 ~ 50°C)				
PROTECTION					
Overload Protection	115 ~ 140% rated output power				
Overload Protection	Protection Type: Constant current limiting; recovers automatically after fault condition is removed				
Over Voltage Protection	See Table				
Over voltage Frotection	Protection Type: Shutdown output voltage; re-power on to recover				
Over Temperature Protection	95°C (TSW1) detect on the heatsink of PFC MOSFET 90°C (TSW2) detect the winding of output cho				
•	Protection Type: Shutdown output voltage; recovers automatically after temperature goes down				
GENERAL SPECIFICATIONS					
Efficiency (typical)	See Table				
Withstand Voltage	3000VAC (Input to Output), 1500VAC (Input to FG), 500VAC (Output to FG)				
Isolation Resistance	100MΩ/500DC (Input to Output, Input to FG, and Output to FG)				
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Working Temperature	-10°C to +60°C (refer to output load derating curve)				
Storage Temperature	-20°C to +85°C				
Working Humidity	20 ~ 90% RH non-condensing				
Storage Humidity	10 ~ 95% RH				
Vibration	10 ~ 500Hz, 2G 10min./1 cycle, 60min each along X, Y, Z axes.				
MTBF	59,600 hours min. @ 25°C (MIL-HDBK-217F)				
PHYSICAL SPECIFICATIONS					
Weight	4700 grams				
Dimensions	278(L) x 129(W) x 127(H) mm				
Warranty	3 years				
SAFETY & EMC					
Safety Standards	UL60950-1, TUV EN60950-1 approved				
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, light industry level, criteria A				



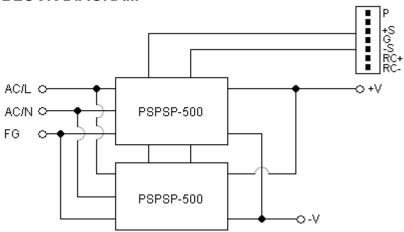
### **OUTPUT VOLTAGE / CURRENT RATING CHART**

Model Number	Input Voltage	Output	Voltage	Over Voltage Output	Output Power		Efficiency	
Woder Number	iliput voltage	Voltage   Adjust. Range   Protection   Curre	Current	Rated Power	Peak Load (4)			
PSPSP1000-5	90 ~ 264 VAC (127 ~ 370 VDC)	5 VDC	4.75 ~ 5.5V	5.75 ~ 6.75V	145A	725W	800W	77%
PSPSP1000-12		12 VDC	10 ~ 13.2V	13.8 ~ 16.2V	75A	900W	1000W	84%
PSPSP1000-13.5		13.5 VDC	12 ~ 15V	15.5 ~ 18.2V	67A	904.5W	1000W	84%
PSPSP1000-15		15 VDC	13.5 ~ 18V	18 ~ 21V	60A	900W	1000W	84%
PSPSP1000-24		24 VDC	20 ~ 26.4V	27.6 ~ 32.4V	37.6A	902.4W	1000W	86%
PSPSP1000-27		27VDC	24 ~ 30V	31 ~ 36.5V	33.6A	907.2W	1000W	86%
PSPSP1000-48		48 VDC	41 ~ 56V	57.6 ~ 67.2V	19A	912W	1000W	86%

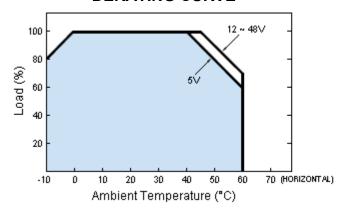
### **NOTES**

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load, and 25°C ambient temperature.
- 2. Ripple & noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 3. Tolerances include 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 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.

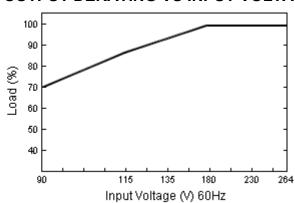
### **BLOCK DIAGRAM**



## **DERATING CURVE**

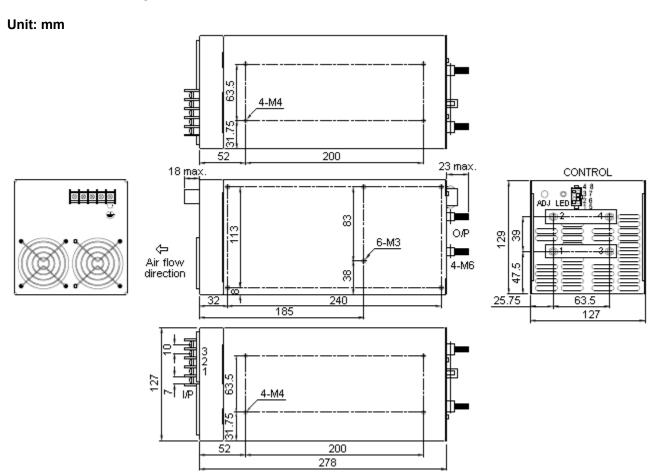


# **OUTPUT DERATING VS INPUT VOLTAGE**





# **MECHANICAL DRAWING**



AC INPUT TERMINAL PIN NO. ASSIGNMENT				
Pin No.	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 5558 MALE CRIMP TERMINAL					
Pin No.	Assignment	Assignment Mating Connector			
1	P (Current Share)	MOLEX 5557-NR			
2	-S				
3	G		MOLEX 5556 Female Crimp		
4	RC-				
5	NC		Terminal Receptacle		
6	NC				
7	+S				
8	RC+				