

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)				
ENVIRONMENTAL SPECIFICATIONS					
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				



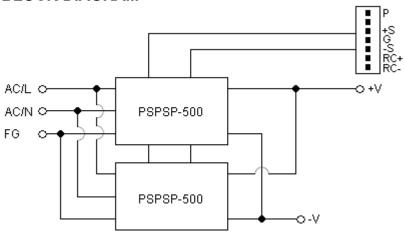
OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Input Voltage	Output	Voltage	Over Voltage Output	Output Power		Efficiency	
Model Nullibel		Voltage	Adjust. Range	Protection	Current	Rated Power	Peak Load (4)	Linciency
PSPSP1000-5	90 ~ 264 VAC (127 ~ 370 VDC)	5 VDC	4.75 ~ 5.5V	5.75 ~ 6.75V	145A	725W	W008	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%

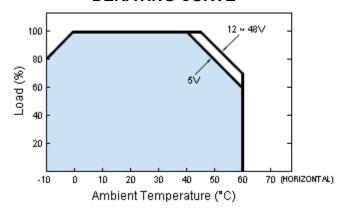
NOTES

- 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.

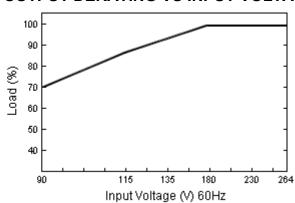
BLOCK DIAGRAM



DERATING CURVE

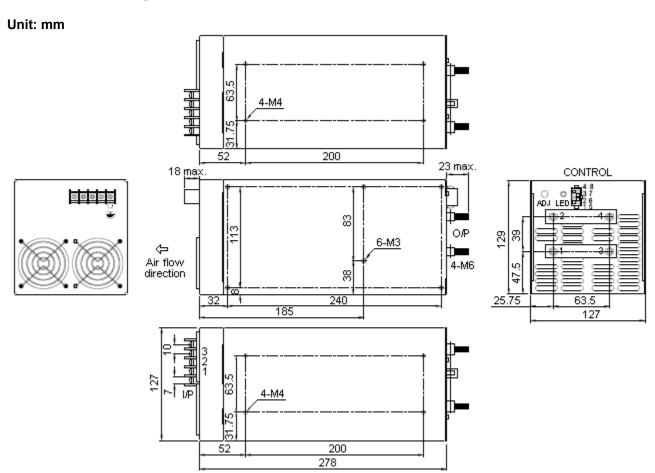


OUTPUT DERATING VS INPUT VOLTAGE





MECHANICAL DRAWING



AC INPUT TERMINAL PIN NO. ASSIGNMENT				
Pin No. 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+				