

500 Watt, PSP 500 Series, Fully Enclosed, (Single Output)

ALL PSU LTD
Electronic Power Solutions

- Universal Input with PFC
- Parallel/Series Operation
- Power Good/Fail Signals
- Enclosed/Open Frame Options
- Current Sharing
- Remote Sense
- Short Circuit/Overload/Over-Voltage/Over Temp Protection
- Full Approvals
- 3 Year Warranty



Specification

Input Voltage.....	90~264 VAC, (127~370VDC) 47~63 Hz
Power Factor.....	0.98 @ 100 VAC, 0.95 @ 230VAC
Output Voltage.....	See table below (plus adjustment range)
Output Power.....	500 Watts at high mains (>180 VAC) Derates to 80% at 115 VAC.
Overload Protection.....	110~125% constant current limiting
Over Voltage Protection.....	115~140% of output voltage
Line Regulation.....	+/-0.5%(5V), +/- 0.3%(12~15V), +/-0.2%(24~48V)
Load Regulation.....	+/-2%(5V), +/-0.5% (all other models)
Set Up/Rise/Hold Up Time.....	1.5 s / 50 ms /24 ms @ 230 VAC (full load)
Isolation Voltage.....	I/P-O/P: 3 kVAC, I/P-FG 1.5 kVAC,O/P-FG 500V, 1 min
Leakage Current.....	<1mA @ 240VAC
Operating Temperature.....	-10~+50 °C, see derating curve
Safety Standards.....	UL60950-1, EN60950-1, TUV, CE
EMC Standard.....	EN55022 class B, EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204
Dimensions.....	278(L) x 129(W) x 63.5(H) mm
MTBF.....	130.1 khrs (MIL-HDBK-217F) @ 25 °C
Weight.....	2.6 kg

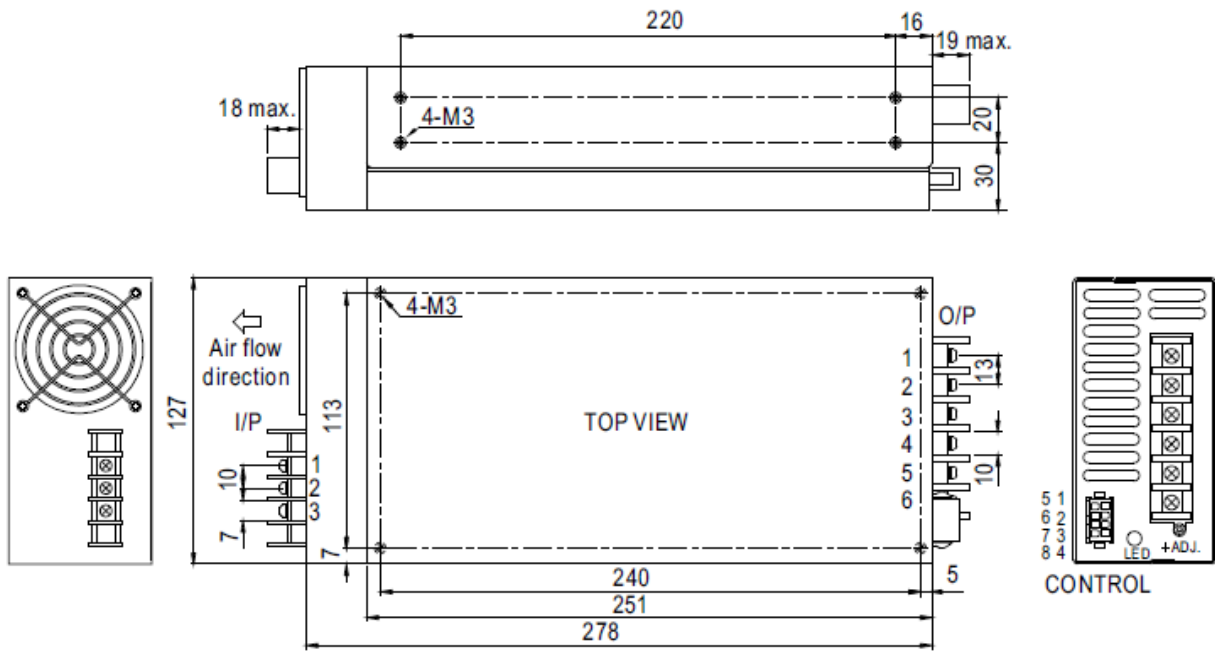
Models and Ratings

Model	Output	Range	Ripple/Noise	Efficiency
PSP-500-5	5.0 V / 80 A	4.75~5.5 V	100 mV	76%
PSP-500-12	12.0 V / 41.5 A	10.0~13.2 V	150 mV	82%
PSP-500-13.5	13.5 V / 37 A	12.0~15.0 V	150 mV	82%
PSP-500-15	15.0 V / 33 A	13.5~18.0 V	150 mV	82%
PSP-500-24	24.0 V / 20.8 A	20.0~26.4 V	150 mV	84%
PSP-500-27	27.0 V / 18.5 A	24.0~30.0 V	150 mV	84%
PSP-500-48	48.0 V / 10.5 A	41.0~56.0 V	200 mV	86%

For mechanical & connection details see next page

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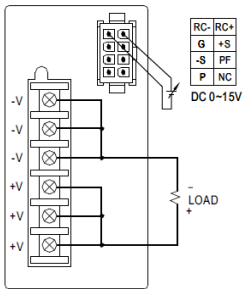
Mechanical Details



AC Input Terminal	
Terminal	Function
1	AC Live
2	AC Neutral
3	F/G

DC Output Terminal	
Terminal	Function
1~3	+V Out
4~6	-V Out

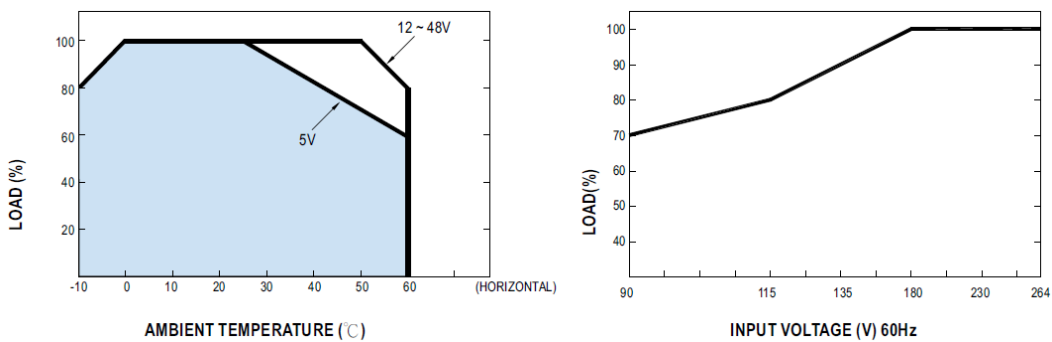
Remote Control Operation



Remote Control
Power ON: When VRC+, RC-=0 ~ 0.8V or Open
Power OFF: When VRC+, RC-=4 ~ 10V

Control Connector (Molex 5559-NP, uses 5558 male crimp)			
Terminal	Function	Mating Connector	Mating Terminal
1	Current Share	Molex 5557-NR	Molex 5556 female crimp terminal receptacle
2	- Sense		
3	F/G		
4	- Remote		
5	N/C		
6	Power Fail		
7	+ Sense		
8	+ Remote		

Derating Curves



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply.

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