

AC-DC Converters



www.powersolve.co.uk

PSL400BP Series 400 Watts Single Output Baseplate or Convection Cooled

Features

- Universal AC Input 85-264VAC/110-350VDC
- Active Power Factor Correction
- N+1 Redundant Operation with built in Or'ing diodes
- Single output with 5V 1A standby
- Remote On/Off
- Baseplate cooled
- Operation from -20 to +70°C
- Overtemperature Shutdown
- Conformal coating on PCB



The PSL400BP Series has been designed as a ruggedized power supply housed in a robust extruded aluminium chassis designed for use in industrial or other types of equipment where cooling fans are undesirable and convection airflow is not available. Units can be mounted in a sealed box providing that the external heat sinking is adequate to maintain the baseplate at a temperature below 85° C.

Electrical Specification

Input	85-264 VAC/110-350VDC
Frequency	47-65Hz
Power Factor Correction	Active PFC to conform to EN61000-3-2
Line Regulation	<1% Max
Load Regulation	1-6% Max
Ripple & Noise	1% pk-pk Max
Overvoltage Protection	Standard
Overcurrent & Shortcircuit	Constant Current with Hiccup Mode
Efficiency	Up to 86%
Start Up Time	3 Sec Max
Hold Up Time	20mS Min
Main Output	See table
Output Adjust	See table
Standby Output	5V 1A
Indicator	LED indicator to show Vout present
Remote On/Off	Power Supply On = Open Circuit Power Supply Off with high applied to Remote On/Off Pin
Output Power Good	Goes high when output in regulation
Overtemperature Protection	Set at 85°C on Baseplate
Current Sharing	Via integral or'ing diodes
EMC	EN55022'B', FCC Class 'B'
Immunity	EN50082-2, EN61000-4-2,3,4,5,6,8,11
Operating Temperature	-20 to +70°C (subject to base plate temperature being maintained below +85°C) PSB320BP-05 derate to 40A above +60°C
Humidity	10-95% non-condensing
Withstand Voltage	Input to Chassis 2kV AC, Input to Output 3kV AC, Output to Chassis 500V AC
Cooling	Conduction cooled through baseplate
Mechanical	300 x 127 x 61.5mm
Conformal Coating	Standard
Safety	UL,cUL & TUV EN60950 Approvals

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Output Voltage and Current Ratings

MODEL	DC OUTPUT VOLTAGE	OUTPUT CURRENT	Max. POWER
PSL320BP-05	5 to 6V Adjustable	53.3 Amps	320 Watts
PSL400BP-12	12 to 14V Adjustable	33.3 Amps	400 Watts
PSL400BP-26	23.4 to 28.2V Adjustable	15.38 Amps	400 Watts
PSL400BP-51	45.9 to 56.1V Adjustable	7.84 Amps	400 Watts

Mechanical & Connection Details

