

# AC-DC Converter



## PSK1500 Series 1500 Watt Enclosed Type Single Output

[www.powersolve.co.uk](http://www.powersolve.co.uk)

### Features

- Universal AC Input
- 0.98 typical Power Factor
- Forced current sharing for parallel operation
- Programmable Output Voltage
- Remote Sense
- Remote On/Off control & Power Fail Signal
- Short Circuit Protection
- Overvoltage, Overload & Over Temperature Protections



### Electrical Specification

Input Voltage	90-264VAC
Frequency	47 - 63Hz
Power Factor	0.95 typical at 230VAC
AC Input current	9.0A at 230VAC
Inrush Current	120A typical at 230VAC
Leakage Current	<3.5mA at 240VAC
Output Voltage	See table
Output Current	See table
Output Voltage Adjustment	+3.0% to -12% by potentiometer, 20-100% by 1-5VDC external control
Overload Protection	105-115% of rated power. Current limiting, delayed shut down of output voltage, re-power on to recover
Overvoltage Protection	110-135% of voltage set point. Shut down output voltage, re-power on to recover.
Over temperature Protection	>100°C on internal heatsink. Shut down output voltage, recovers automatically after temperature goes down.
Operating Temperature Range	0°C to +50°C @100% load, above 50°C derate linearly to 50% load @ +65°C
Operating Humidity	20-90% RH non-condensing
Storage Temperature Range	-20°C to +85°C
Storage Humidity	10-95% RH
Temperature Coefficient	±0.04% / °C (0-50°C)
Safety Standards	UL1950, 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: 100MΩ / 500VDC
EMI Conduction & Radiation	Compliance to EN55022 class A
Harmonic Current	Compliance to EN61000-3-2, -3
EMS Immunity	Compliance to EN55024
Power Good Signal	Open Drain of N MOSFET
Special Functions	DC voltage adjust, Remote Sensing, Remote Control, Parallel Operation
Control Connector Types	Sense: JST XHP-2, Control: JST XHP-6, Crimp Terminals: JST BXH-001T-P0.6
Cooling	Power Rating & Temperature Controlled Cooling Fan
Dimensions	280(L) x 205(W) x 64(H)mm
Weight	3.7Kgs

### Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	MAX OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	POWER Max.	EFF.
PSK1500-012	12V	125A	150mV	1%	1%	1500W	84%
PSK1500-015	15V	100A	150mV	1%	1%	1500W	85%
PSK1500-018	18V	83A	180mV	1%	1%	1494W	85%
PSK1500-024	24V	62A	240mV	1%	1%	1488W	88%
PSK1500-030	30V	50A	300mV	1%	1%	1500W	88%
PSK1500-036	36V	41A	360mV	1%	1%	1476W	88%
PSK1500-048	48V	31A	480mV	1%	1%	1488W	89%
PSK1500-060	60V	25A	600mV	1%	1%	1500W	90%