

PT535 / FlexOutput 300 / 500 Watt AC/DC multi output power supply

PT535

Features



- Industrial and (semi) Medical applications
- Ultra High efficiency (90% full load)
- Up to 6 universal adjustable outputs
- Various configurations, customer dedicated
- 300 W and 500 W version
- Active Power Factor Correction
- UL approvals, CB report, CE-marking
- -20 - +70 °C operation
- Outputs usable in parallel or in series
- MTBF > 250KH MIL HDBK 217F
- Protected against short circuit, overtemp., overload and overvoltage



Input

	Min.	Typical	Max.	Units	Remarks
Input voltage range	90	-	264	V _{ac}	
Line frequency	47	-	63	Hz	
Efficiency	-	90	-	%	At full load and 230V _{ac} input voltage
Power factor	-	0.99	-		
Inrush current	-	-	30	A	At 230V _{ac} input voltage
Fuses	-	6.3 AT	-		On both input lines
Overtemperature protection	90	100	110	°C	Latching
Hold-up time	20	-	-	msec	Full load, independent of input voltage
Start-up delay	-	500	-	msec	At 90V _{ac} input voltage

Main Outputs

Module	Voltage range	Rated power	I _{max}
1	3 - 6 V	100 W	20 A
2	5 - 10 V	150 W	20 A
3	8 - 14 V	150 W	19 A
4	12 - 24 V	150 and 300 W	12.5 and 20 A
5	21 - 36 V	150 and 300 W	7 and 14 A
6	34 - 50 V	150 and 300 W	4.5 and 9 A

Standard Options

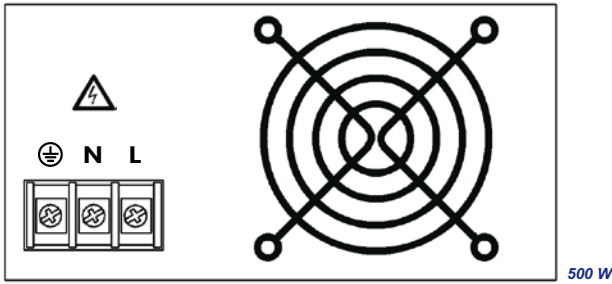
- External trim on all outputs
- Remote sense
- Global inhibit and individual inhibit per output
- Power Good signal on all outputs (open collector)
- Overtemperature protection with > 1 sec advance warning signal
- 2 Isolated house keeping supplies for remote on/off
- Fan Fail alarm

Auxiliary Outputs

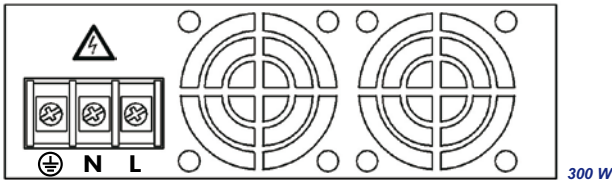
Module	Voltage range	Rated power	I _{max}
1	1.8 - 2.5 V	30 W	10 A
2	2.2 - 3.8 V	30 W	10 A
3	3.6 - 6.0 V	30 W	8.5 A
4	5.5 - 9.0 V	30 W	5.5 A
5	12 - 20 V	30 W	2.5 A
6	18 - 26 V	30 W	1.7 A

Other configurations on demand.

Input Connector

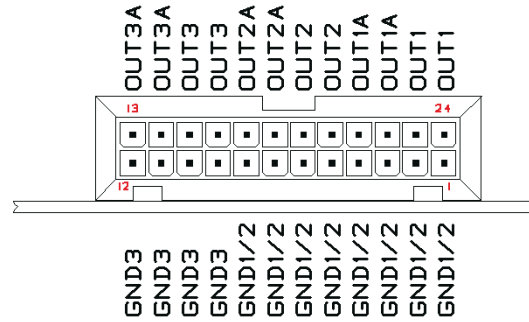


500 W



300 W

Output Connector



Manufacturer: Molex
Part Number; PCB (male): 15-24-9244
Part Number; Mating part (female): 39-01-2245
Part Number; Female contact: 39-00-0060

Other connectors on demand.

Mechanical

Length	275 mm, including connectors
Width	127 mm
Height	40 mm (300W) / 63.5 mm (500W)
Weight	1250 gr (300W) / 1450 gr (500W)
Ingress	
Protection class	IP20
Case material	Aluminium, RoHS chromated
Input connector	Screw type
Output connector	Molex, see above

Environmental

	Min.	Typical	Max	Units
Operating temperature range	-20	-	70	°C
Storage temperature range	-40	-	85	°C
Relative humidity	-	-	85	%
MTBF	> 250000 hours			
Cooling	Forced air			
Safety	Compliant with EN60950, UL508C, NEN 61010, UL-approved			
Leakage current to GND	< 0.4 mA			
Isolation Input-Output	3000 V _{ac}			
Isolation Output PE	500 V _{dc}			
Isolation Output V1 & V2 V3	500 V _{dc}			
Emission	EN 55022 Class B			
Harmonic currents	EN 61000-3-2 Class D			
Surge transient Immunity	EN 61000-4-5 (0.5 kV line to line, 1 kV Line to earth)			
Voltage interruptions and dips	EN 61000-5-11 (1 cycle / 100%)			

Approvals



Low Voltage Directive 73/23/EEC and 93/68/EEC
 EMC Directive 89/336/EEC and 92/31/EEC and 93/68/EEC