

AC-DC Converter

**POWER
SOLVE**

PSO150/PSU150 Series 150 Watts Single Output

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Features

- Power Factor Correction
- Universal Input Range 90-264VAC
- Single DC Output
- Optional Power Fail Detection
- Industry Standard 5 x 3" Footprint
- Available as Open PCB or in Aluminium U Channel
- Full Safety Approvals
- EMC to FCC Part 15 Class B & CISPR-22 Class B



Electrical Specification

AC Input	90-264VAC, 47-63Hz
Power Factor Correction	0.95 minimum
Input Current	2A max., low line, full load
Inrush Current	30A max., cold start, 230VAC input
Efficiency	80% typical
DC Outputs	See table
Line Regulation	0.5% typical, 1% max.
Load Regulation	See table
Over Voltage Protection	112-132% of Vout nominal
Over Current Protection	110-150% of nominal output power
Transient Response	4ms, full load to 50% load
Hold Up Time	16ms min., 110VAC input, full load output
Start Up Time	1 sec. typical, 2 sec. max.
Ripple & Noise	1% typical, 2% max.
Earth Leakage Current	0.45mA max.
Operating Temperature	0 to 70°C, derate linearly from 100% load at 50°C to 50% load at 70°C
Storage Temperature	-40 to +85°C
Relative Humidity	95% non-condensing
EMC	FCC Part 15 Class B, CISPR-22 Class B
Safety Approvals	UL, cUL60950, TUV/GS(EN60950), CE

Output Voltage and Current Ratings

MODEL (OPEN PCB VERSION)	MODEL (U CHANNEL VERSION)	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAXIMUM OUTPUT POWER
PSO150-09	PSU150-09	9.0V	16A	5%	144W
PSO150-12	PSU150-12	12.0V	12.5A	5%	150W
PSO150-15	PSU150-15	15.0V	10A	5%	150W
PSO150-18	PSU150-18	18.0V	8.33A	4%	150W
PSO150-24	PSU150-24	24.0V	6.25A	3%	150W
PSO150-30	PSU150-30	30.0V	5A	2%	150W
PSO150-36	PSU150-36	36.0V	4.17A	2%	150W
PSO150-48	PSU150-48	48.0V	3.13A	2%	150W

Options: Power Fail Detect - consult sales office for details

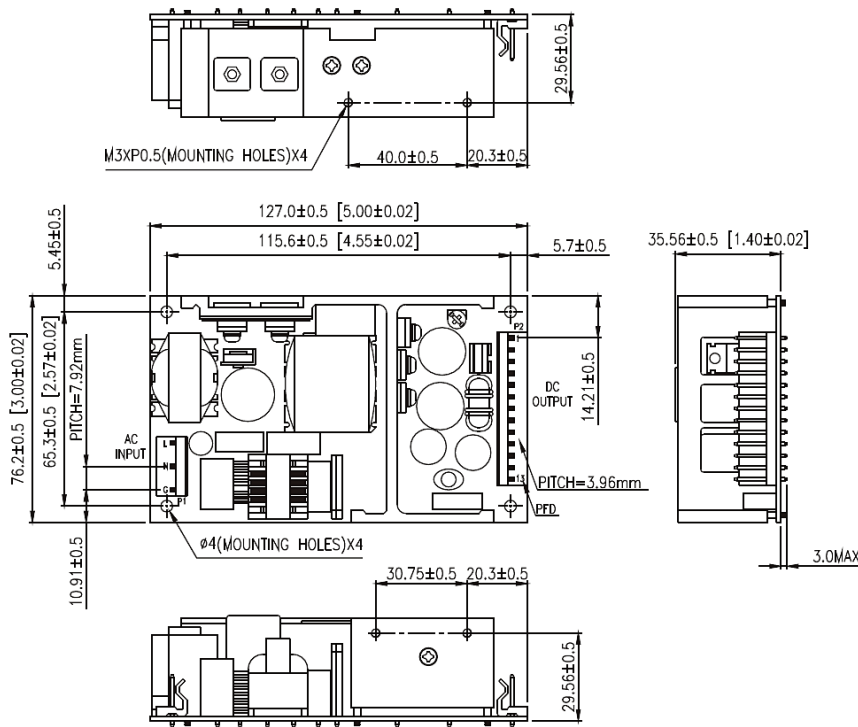
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Mechanical and Connection Details

PSO150 Models



Input Connector

Pin	Function
1	Earth
2	No Pin
3	Neutral
4	No Pin
5	Live

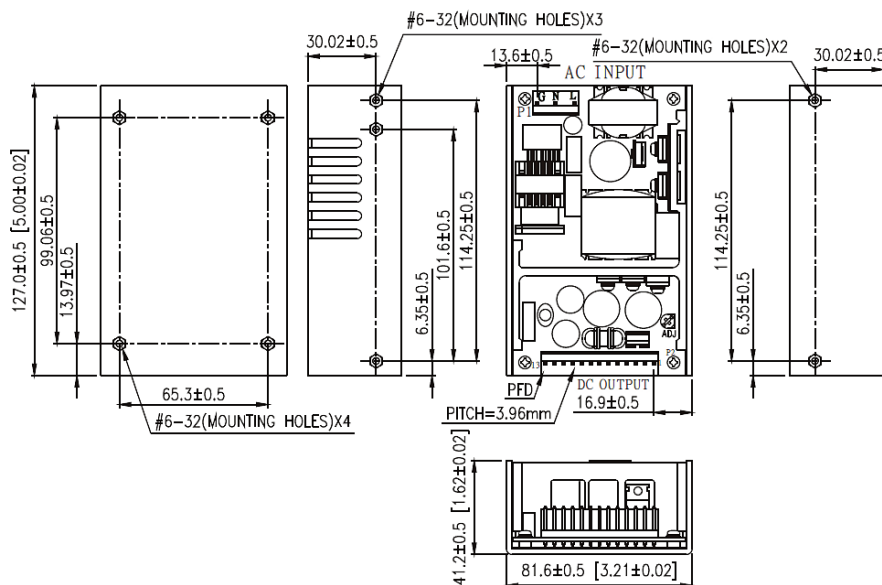
Mating connector: Molex 09-50-3051
Crimp terminals: Molex 2478 series

Output Connector

Pin	Function
1	+Vout
2	+Vout
3	+Vout
4	+Vout
5	+Vout
6	+Vout
7	RTN
8	RTN
9	RTN
10	RTN
11	RTN
12	RTN
13 (optional)	Power Fail

Mating connector: Molex 09-50-3131
Crimp terminals: Molex 2478 series

PSU150 Models



Input Connector

Pin	Function
1	Earth
2	No Pin
3	Neutral
4	No Pin
5	Live

Mating connector: Molex 09-50-3051
Crimp terminals: Molex 2478 series

Output Connector

Pin	Function
1	+Vout
2	+Vout
3	+Vout
4	+Vout
5	+Vout
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7	RTN
8	RTN
9	RTN
10	RTN
11	RTN
12	RTN
13 (optional)	Power Fail

Mating connector: Molex 09-50-3131
Crimp terminals: Molex 2478 series