

# AC-DC Converters

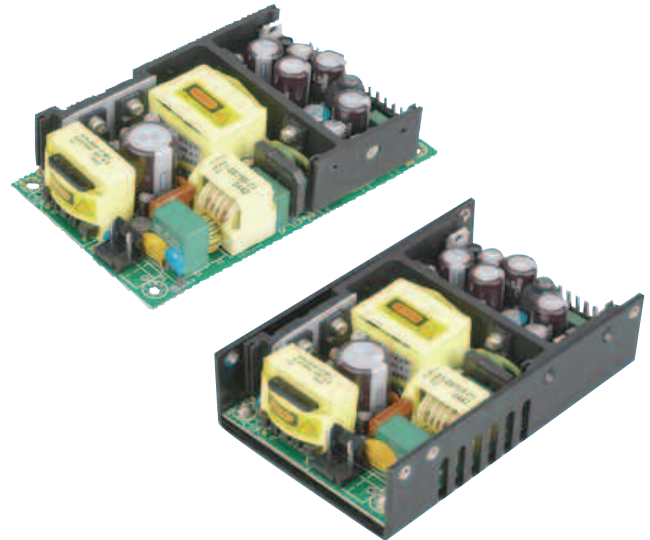
**POWER**  
**SOLVE**

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PSO80/PSU80 Series  
Dual & Triple Outputs  
Up to 80 Watts

## Features

- Power Factor Correction
- Wide Universal Input Voltage of 90-264VAC
- Dual or Triple DC Outputs
- 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	Output 1 of Multi Output Models, 112-132% V Nominal
Over Current Protection	110-150% Nominal Output Power
Transient Response	4mS, Full Load to 50% Load
Hold Up Time	16mS Min, 110V AC 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% Max Non Condensing
EMC	FCC Part 15 Class B, CISPR-22 Class B
Safety Approvals	UL, cUL60950, TUV/GS(EN60950), CE

**Powersolve Electronics Ltd. Units 8A, Arnhem Road, Newbury, RG14 5RU. England**

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## Output Voltage & Current Ratings

Model (Open PCB Version)	Model (U Channel Version)	Output 1	Max Reg.	Output 2	Max Reg.	Output 3	Maximum Output Power
PSO80-3V312	PSU80-3V312	+3.3V 1.2A-12A	7%	+12V 0.5A-5A	5%		80 Watts
PSO80-512	PSU80-512	+5V 1.2A-12A	5%	+12V 0.5A-5A	5%		80 Watts
PSO80-515	PSU80-515	+5V 1.2A-12A	5%	+15V 0.5-5A	5%		80 Watts
PSO80-524	PSU80-524	+5V 1.2A-12A	5%	+24V 0.3A-3A	5%		80 Watts
PSO80-3V35	PSU80-3V35	+3.3V 1.2A-12A	7%	+5V 0.5A-5A	5%		64.6 Watts
PSO80-524N	PSU80-524N	+5V 1.2A-12A	5%	-	5%	-24V 0A-2A	80 Watts
PSO80-3V31212	PSU80-3V31212	+3.3V 1.2A-12A	7%	+12V 0.5A-5A	5%	-12V 0A-0.8A	80 Watts
PSO80-3V31212P	PSU80-3V31212P	+3.3V 1.2A-12A	7%	+12V 0.5A-5A	5%	+12V 0A-0.8A	80 Watts
PSO80-5125	PSU80-5125	+5V 1.2A-12A	5%	+12V 0.5A-5A	5%	-5V 0A-0.8A	80 Watts
PSO80-5125P	PSU80-5125P	+5V 1.2A-12A	5%	+12V 0.5A-5A	5%	+5V 0A-0.8A	80 Watts
PSO80-51212	PSU80-51212	+5V 1.2A-12A	5%	+12V 0.5A-5A	5%	-12V 0A-0.8A	80 Watts
PSO80-51212P	PSU80-51212P	+5V 1.2A-12A	5%	+12V 0.5A-5A	5%	+12V 0A-0.8A	80 Watts
PSO80-51515	PSU80-51515	+5V 1.2A-12A	5%	+15V 0.5A-5A	5%	-15V 0A-0.8A	80 Watts
PSO80-51515P	PSU80-51515P	+5V 1.2A-12A	5%	+15V 0.5A-5A	5%	+15V 0A-0.8A	80 Watts
PSO80-52424	PSU80-52424	+5V 1.2A-12A	5%	+24V 0.3A-3A	5%	-24V 0A-0.8A	80 Watts
PSO80-52424P	PSU80-52424P	+5V 1.2A-12A	5%	+24V 0.3A-3A	5%	+24V 0A-0.8A	80 Watts
PSO80-52412	PSU80-52412	+5V 1.2A-12A	5%	+24V 0.3A-3A	5%	-12V 0A-0.8A	80 Watts
PSO80-52412P	PSU80-52412P	+5V 1.2A-12A	5%	+24V 0.3A-3A	5%	+12V 0A-0.8A	80 Watts
PSO80-3V3125	PSU80-3V3125	+3.3V 1.2A-12A	7%	+12V 0.5A-5A	5%	-5V 0A-0.8A	80 Watts
PSO80-3V3125P	PSU80-3V3125P	+3.3V 1.2A-12A	7%	+12V 0.5A-5A	5%	+5V 0A-0.8A	80 Watts
PSO80-51010	PSU80-51010	+5V 1.2A-12A	5%	+10V 0.5A-5A	5%	-10V 0A-1.0A	80 Watts
PSO80-51010P	PSU80-51010P	+5V 1.2A-12A	5%	+10V 0.5A-5A	5%	+10V 0A-1.0A	80 Watts
PSO80-3V3512	PSU80-3V3512	+3.3V 1.2A-12A	7%	+5V 0.5A-5A	5%	-12V 0A-1.0A	76.6 Watts
PSO80-3V3512P	PSU80-3V3512P	+3.3V 1.2A-12A	7%	+5V 0.5A-5A	5%	-12V 0A-1.0A	76.6 Watts

Mating Connectors: Input: Molex Housing 09-50-3031 Crimp Terminals: Molex 2478  
Output: Molex Housing 09-50-3131 Crimp Terminals: Molex 2478

Pin	Pin Connection												
	1	2	3	4	5	6	7	8	9	10	11	12	13
PSO80/PSU80-524	N/C	N/C	Vo1	Vo1	Vo1	Vo1	COM	COM	COM	Vo3	COM	COM	N/C
DUAL OUTPUT	Vo2	Vo2	Vo1	Vo1	Vo1	Vo1	COM	COM	COM	N/C	COM	COM	N/C
TRIPLE OUTPUT	Vo2	Vo2	Vo1	Vo1	Vo1	Vo1	COM	COM	COM	Vo3	COM	COM	N/C

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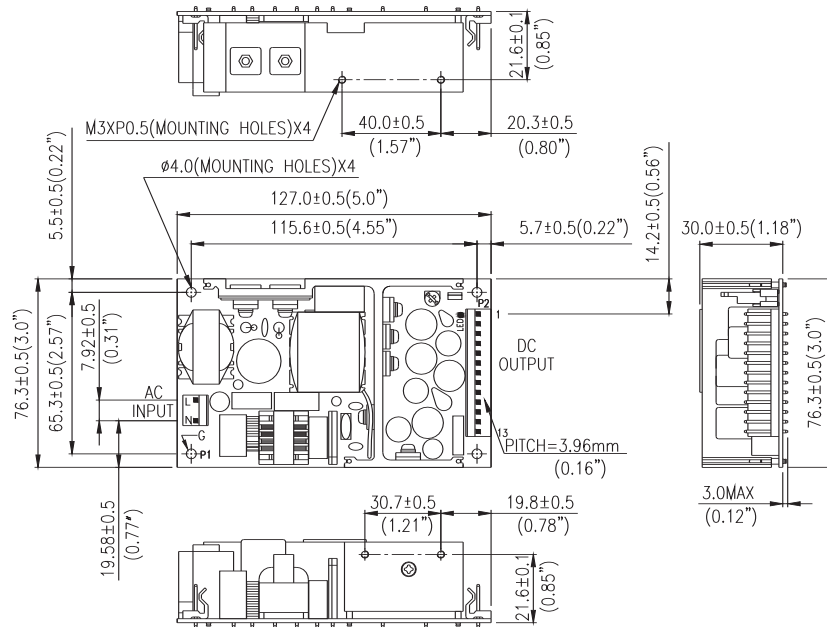


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## Mechanical Specification - PSO80 Series

### Note:

1. Dimensions are shown in inches or mm.
2. Weight: 350gs approx.



## Mechanical Specification - PSU80 Series

### Note:

1. Dimensions are shown in inches or mm.
2. Weight: 480gs approx.

