

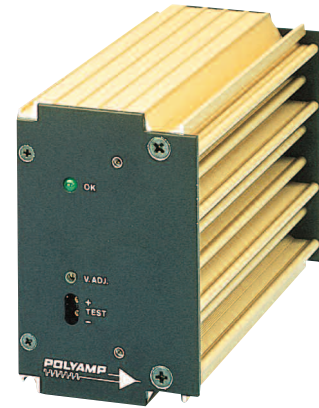
# PSE 250 Series

150-250 WATTS DC/DC SINGLE OUTPUT

EURO CASSETTES

## FEATURES

- Under voltage logic alarm.
- Conformally coating, tropic.
- Reverse input voltage protection.
- High efficiency.
- Fully enclosed, meets IP30 standard.
- Convectional cooled.
- High MTBF



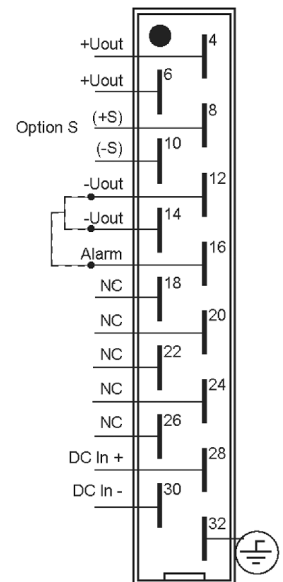
## SPECIFICATIONS

INPUT	
Voltage	See table
Reverse voltage protection	Yes.
Isolation	Input – Output: 2.5kVac / 4kVdc Input – Case: 2.5kVac / 4kVdc Output – Case: 2kVdc
OUTPUT	
Voltage	See table.
Current	See table.
Source regulation	0.2%.
Load regulation	0.2% (0-100% load)
Output ripple (100kHz)	10mV p-p (typical)
Voltage adjustment	90% - 110%.
Current limit protection	105%.
Under voltage logic alarm	90% of nominal output.
Soft start	Yes.
Start-up time	<1s.
Hold-up time	2-10ms
Efficiency	>88%
ENVIRONMENTAL	
Operating temperature	-25°C to +70°C (100% load, O/P > 10V). -25°C to +55°C (100% load).
Temperature coefficient	0.02% / °C.
Storage temperature	-40°C to 85°C.
Cooling	Convectional cooling.
Conformal coating	Conformal coated to withstand non-condensing tropical environment.
MECHANICAL	
Mechanical dimensions	PSE150, PSE200 3U x 8TE x 167mm PSE250 3U x 10TE x 167mm
Weight	0.80-1.35kg, model dependant
Mounting	Consult Powerbox for mounting options
STANDARDS	
Safety	IEC60950-1: 2001
EMI standards	IEC/EN61000-6-3, EN55011/EN55022 Level B
Immunity standards	EN 61000-6-2, EN/IEC 61000-4-4, EN/IEC 61000-4-5 Level 2 & 3 EN 50121-3-2 & EN 50121-3-2-4, IEC 62236-302 & IEC 62236-4
C-Tick	AS/NZS CISPR11: 2002 Group1 Class A

## OPTIONS

- A – Overvoltage protection (OVP)  
The output voltage is limited to 15% nominal output voltage. A thyristor short- circuits the output.
- B – Undervoltage alarm with relay  
The logic alarm output is replaced with Relay with selectable alarm logic NO or NC.
- C – Built in series diode  
A series diode on the output, when output is connected in parallel with other power supplies to achieve redundancy. Output power might be derated by 20%.
- S – The voltage sensing can be put at the load to compensate for voltage drop. This is standard feature on 5V output.
- H – Inrush current limit with NTC  
Only for C-input code. Reduce the inrush current during the start up. The input voltage range will be affected.
- E1 – 2.5kVac isolation input/case, option  
On A and B inputs. The emission level increase to level A.
- E2 – 2.5kVac isolation output/case  
The emission level will increase to level A.
- T – Train input  
Input voltage range according to train Standard EN50155 and IEC 60751. Euro panel, option L 8TE for PSE 100, 10TE for 5V output with extra cooler.
- L – Euro panel  
8TE for PSE 150 & PSE 200, 10TE for PSE 250.
- N – Wall mounting panels  
Wall mounting panel with connector holder The female connector has to be chosen.
  - H15 screw type female, H15-S
  - H15 fast-on 6.3mm female, H15-T
  - Din rail TS35 clips, option Q

## TECHNICAL ILLUSTRATIONS



# PSE 250 Series

150-250 WATTS DC/DC SINGLE OUTPUT

## SELECTION TABLE

MODEL NUMBER	INPUT	OUTPUT		COOLING	POWER
PSE150 24/12	18-32V	12V	12.5A	Convection	150W
PSE150 24/13.2	18-32V	13.2V	11.3A	Convection	150W
PSE150 24/15	18-32V	15V	10.0A	Convection	150W
PSE200 24/24	18-32V	24V	8.3A	Convection	200W
PSE250 24/24	18-32V	24V	10.4A	Convection	250W
PSE200 24/48	18-32V	48V	4.1A	Convection	200W
PSE250 24/48	18-32V	48V	5.2A	Convection	250W
PSE200 24/110	18-32V	110V	1.8A	Convection	200W
PSE250 24/110	18-32V	110V	2.3A	Convection	250W
PSE150 48/12	38-60V	12V	12.5A	Convection	150W
PSE150 48/13.2	38-60V	13.2V	11.3A	Convection	150W
PSE150 48/15	38-60V	15V	10.0A	Convection	150W
PSE200 48/24	38-60V	24V	8.3A	Convection	200W
PSE250 48/24	38-60V	24V	10.4A	Convection	250W
PSE200 48/48	38-60V	48V	4.1A	Convection	200W
PSE250 48/48	38-60V	48V	5.2A	Convection	250W
PSE200 48/110	38-60V	110V	1.8A	Convection	200W
PSE250 48/110	38-60V	110V	2.3A	Convection	250W
PSE150 110/12	88-150V	12V	12.5A	Convection	150W
PSE150 110/13.2	88-150V	13.2V	11.3A	Convection	150W
PSE150 110/15	88-150V	15V	10.0A	Convection	150W
PSE200 110/24	88-150V	24V	8.3A	Convection	200W
PSE250 110/24	88-150V	24V	10.4A	Convection	250W
PSE200 110/48	88-150V	48V	4.1A	Convection	200W
PSE250 110/48	88-150V	48V	5.2A	Convection	250W
PSE200 110/110	85-150V	110V	1.8A	Convection	200W
PSE250 110/110	85-150V	110V	2.3A	Convection	250W
PSE150 220/12	185-300V	12V	12.5A	Convection	150W
PSE150 220/13.2	185-300V	13.2V	11.3A	Convection	150W
PSE150 220/15	185-300V	15V	10.0A	Convection	150W
PSE200 220/24	185-300V	24V	8.3A	Convection	200W
PSE250 220/24	185-300V	24V	10.4A	Convection	250W
PSE200 220/48	185-300V	48V	4.1A	Convection	200W
PSE250 220/48	185-300V	48V	5.2A	Convection	250W
PSE200 220/110	185-300V	110V	1.8A	Convection	200W
PSE250 220/110	185-300V	110V	2.3A	Convection	250W

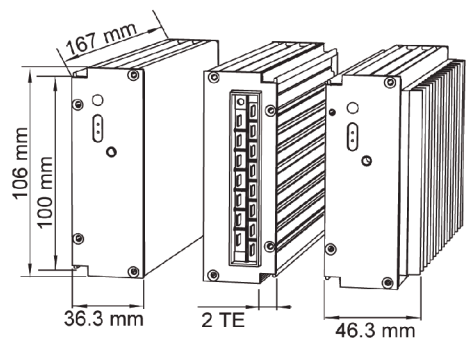


Figure 4. Dimensions.  
Weight: 0.80 kg.

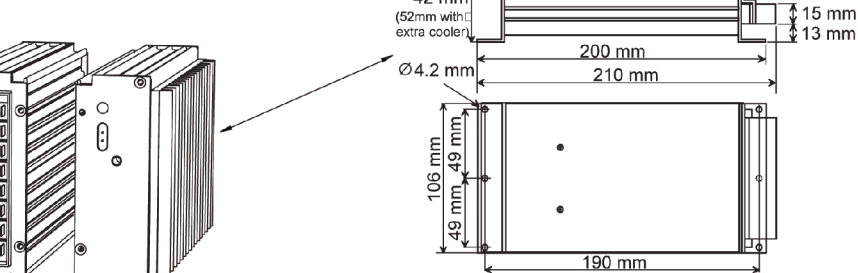


Figure 5. Optional extra cooler version  
Weight: 1.00 | 1.20 kg

Figure 7. Dimensions with option N, wall mounting  
Weight: 0.95 kg with extra coolers 1.15 | 1.35 kg