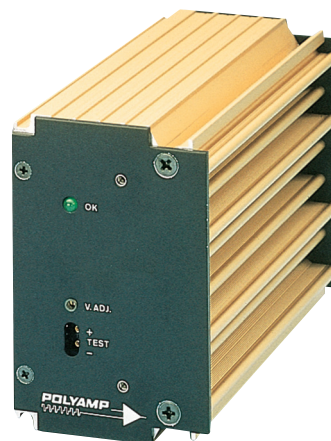


PSE100 Series

60 - 100 WATTS DC/DC SINGLE OUTPUT

Features

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



Specifications

INPUT

Voltage	See table
Isolation	Input – Output: 2kVdc (Input code A, B) Input – Output: 2.5kVac / 4kVdc (Input code C / D) Input – Case: 2kVdc (Input code A, B) Input – Case: 2.5kVac / 4kVdc (Input – code C / D) Output – Case: 2kVdc
Reverse voltage protection	Yes.

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	80-88%

ENVIRONMENTAL

Operating temperature	-25°C to +70°C (100% load, O/P > 10V). -25°C to +55°C (100% load, O/P < 10V).
Temperature coefficient	0.02% / °C.
Storage temperature	-40°C to 85°C.
Conformal coating	Conformal coated to withstand non-condensing tropical environment RH 95%

MECHANICAL

Mechanical dimensions	3U x 8TE x 167mm
Weight	0.85kg

GENERAL

Cooling	Convectional cooling.
Optional features	<p>-Overvoltage protection, option A. The output voltage is limited to 15% nominal output voltage. A thyristor short- circuit the output.</p> <p>-Undervoltage alarm with relay, option B. The logic alarm output is replaced with Relay with selectable alarm logic NO or NC.</p> <p>-Built in series diode, option C. A series diode on the output, when output is connected in parallel with other power supplies to achieve redundancy. Output power might be derated.</p> <p>-Remote sense, option S. The voltage sensing can be put at the load to compensate for voltage drop. This is standard feature on 5V output.</p> <p>-Inrush current limit with NTC, option H. Only for C -input code. Reduce the inrush current during the start up. The input voltage range will be affected.</p> <p>- 2.5kVac isolation input/case, option E1. On A and B inputs. The emission level increase to level A.</p> <p>- 2.5kVac isolation output/case, option E2. The emission level will increase to level A.</p> <p>-Train input, option T. 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.</p> <p>- Wall mounting panels, option N. Wall mounting panel with connector holder The female connector has to be chosen.</p> <p>- H15 screw type female, H15-S</p> <p>- H15 fast-on 6.3mm female, H15-T</p> <p>- Din rail TS35 clips, option Q.</p>

STANDARDS

Safety	IEC60950-1: 2001
EMI standards	EN55011/EN55022 class B, IEC/EN61000-6-2,
C-Tick	AS/NZS CISPR11: 2002 Group1 Class A
EMC standards	EN61000-6-2, EN/IEC61000-4-4, EN61000-4-5

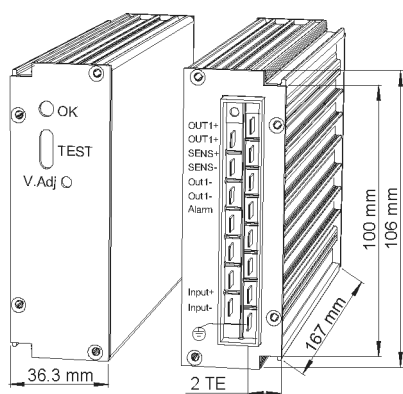
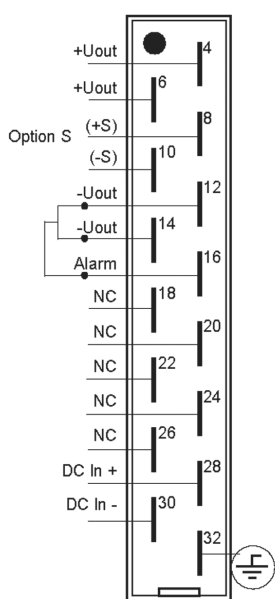
PSE100 Series

60 - 100 WATTS DC/DC SINGLE OUTPUT

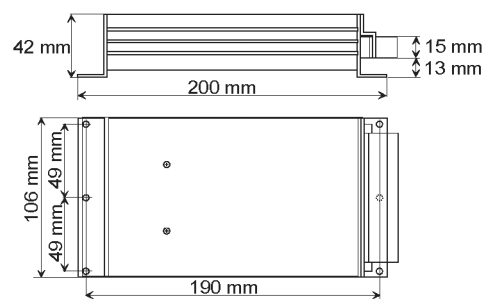
Selection Table

MODEL NUMBER	INPUT	OUTPUT		COOLING	POWER
PSE100A5	10-30V	5V	20A	Convection	60W
PSE100A13.2	10-30V	13.2V	7.6A	Convection	100W
PSE100A15	10-30V	15V	6.7A	Convection	100W
PSE100A24	10-30V	24V	4.2A	Convection	100W
PSE100A48	10-30V	48V	2.1A	Convection	100W
PSE100B5	20-72V	5V	20A	Convection	100W
PSE100B13.2	20-72V	13.2V	7.6A	Convection	60W
PSE100B15	20-72V	15V	6.7A	Convection	100W
PSE100B24	20-72V	24V	4.2A	Convection	100W
PSE100B48	20-72V	48V	2.1A	Convection	100W
PSE100C5	50-150V	5V	20A	Convection	60W
PSE100C13.2	50-150V	13.2V	7.6A	Convection	100W
PSE100C15	50-150V	15V	6.7A	Convection	100W
PSE100C24	50-150V	24V	4.2A	Convection	100W
PSE100C48	50-150V	48V	2.1A	Convection	100W
PSE100D5	90-270V	5V	20A	Convection	60W
PSE100D13.2	90-270V	13.2V	7.6A	Convection	100W
PSE100D15	90-270V	15V	6.7A	Convection	100W
PSE100D24	90-270V	24V	4.2A	Convection	100W
PSE100D48	90-270V	48V	2.1A	Convection	100W

Technical Illustrations



Dimensions. Weight: 0.85 kg.



Dimensions with option N, wall mounting
Weight: 0.91 kg