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	**-Overvoltage protection, option A.** The output voltage is limited to 15% nominal output voltage. A thyristor short- circuit the output. **-Undervoltage alarm with relay, option B.** The logic alarm output is replaced with Relay with selectable alarm logic NO or NC. **-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. **-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. **-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. **- 2.5kVac isolation input/case, option E1.** On A and B inputs. The emission level increase to level A. **- 2.5kVac isolation output/case, option E2.** The emission level will increase to level A. **-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. **- Wall mounting panels, option N.** 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.**

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

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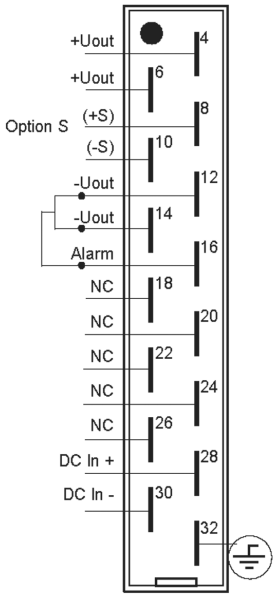
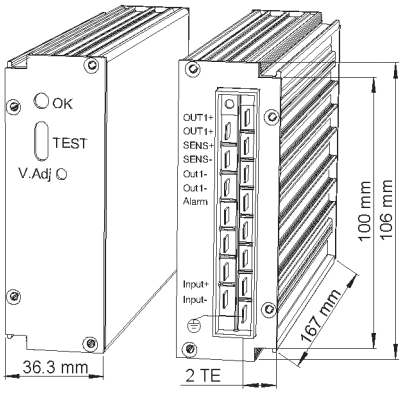
Selection Table

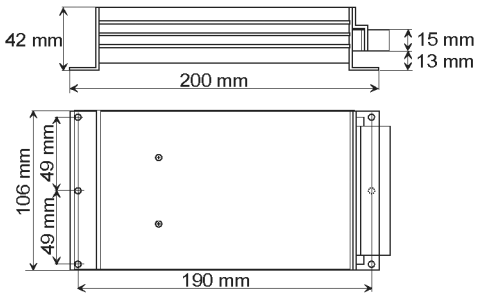
MODEL NUMBER	INPUT	OUTPUT		COOLING	POWER
PSE100A5	10-30V	5V	20A	Convection	60W
PSE100A13.2	10-30V	13.2V	7.6A	Convection	100W
PSE100A15	10-30V	15V	6.7A	Convection	100W
PSE100A24	10-30V	24V	4.2A	Convection	100W
PSE100A48	10-30V	48V	2.1A	Convection	100W
PSE100B5	20-72V	5V	20A	Convection	100W
PSE100B13.2	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