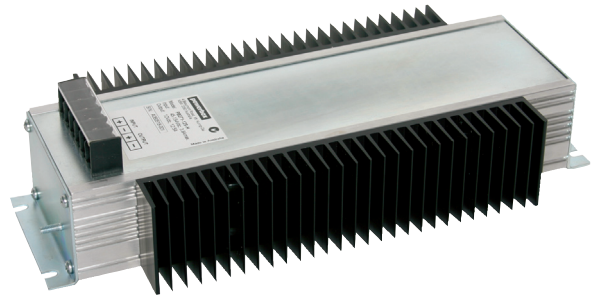


PB271 Series

100-150 WATTS DC/DC SINGLE OUTPUT RAILWAY

Features

- Rugged DC/DC converter for railway applications
- 45-154Vdc input / 12 or 24Vdc output.
- High temperature operation, no cooling fan.
- Up 60°C ambient with full load, derate up to 90°C.
- Shock & vibration protection (potted).
- Overvoltage, short circuit, over-temperature, input transients & reverse polarity protection.
- Complies with EN50121-3-2: 2000.
- Output terminal, available in screw, cage clamp or phoenix terminals.
- Designed & manufactured in Australia.



Specifications

INPUT

Voltage	45-154Vdc
Current	4.2A
Isolation	Input to chassis: 2121Vdc, 1 min. Input to output: 4242Vdc, 1 min. Output to chassis: 707Vdc, 1 min.
Reverse voltage protection	Indefinite, series blocking diode on input.

OUTPUT

Voltage	See Table
Current	See Table
Power	100-150W
Ripple & noise	30mV p-p
Line regulation	0.5% of Vnom
Load regulation	12Vout = 3% Vnom 24Vout = 1.5% Vnom
Overvoltage protection	130% of Vnom, manual restart required.
Overcurrent protection	110% of Inom, auto recovery.
Short circuit protection	Indefinite, auto recovery.
Over temperature protection	110°C, auto recovery.
Efficiency	85% at full load.

ENVIRONMENTAL

Operating Temperature	-25 – 60°C, derate to 90°C, consult sales
Relative Humidity	5 – 90% (non-condensing)
Cooling	Natural convection

STANDARDS

Safety standards	Complies with AS/NZS60950:2000
C-tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	Designed to comply with EN50121-3-2: 2000

MECHANICAL

General	Chassis mount enclosure
Input & output connection	-S: 4 ways screw T/B 20A/300V suitable for up to 4mm ² wire -C: 5 ways cage clamp T/B 20A/300V suitable for up to 4mm ² wire -P: 4 ways pluggable T/B 20A /300V suitable for up to 4mm ² wire
Ground Terminal	M4x12 stud
Length	290mm
Width	80mm (without heatsinks) 135mm (with heatsinks)
Height	-S: 69mm -C: 73mm -P: 51mm
Weight (unpacked)	1.9kgs (without heatsinks) 2.4kgs (with heatsinks)

PB271 Ordering information

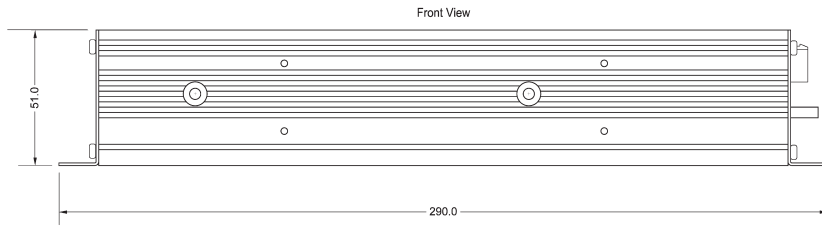
PB271	-	12	S	-	H
1		2	3		4

1. Series name
2. Output voltage
-12
-24
3. Output connection
-S (Screw terminal block)
-C (Cage clamp terminal block)
-P (Pluggable terminal block)
4. Optional
- Heatsinks

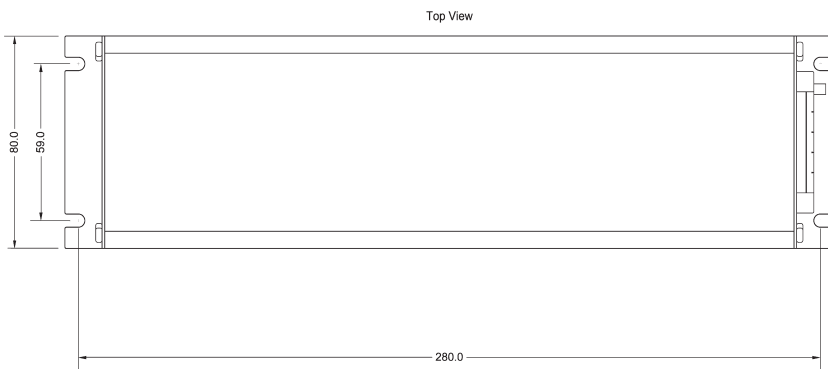
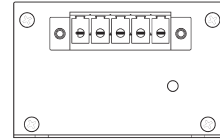
PB271 Series

150 WATTS DC/DC SINGLE RAILWAY

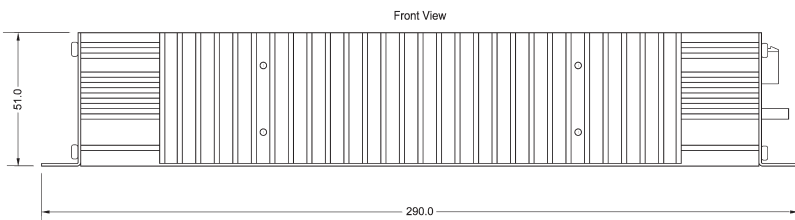
Technical Illustrations



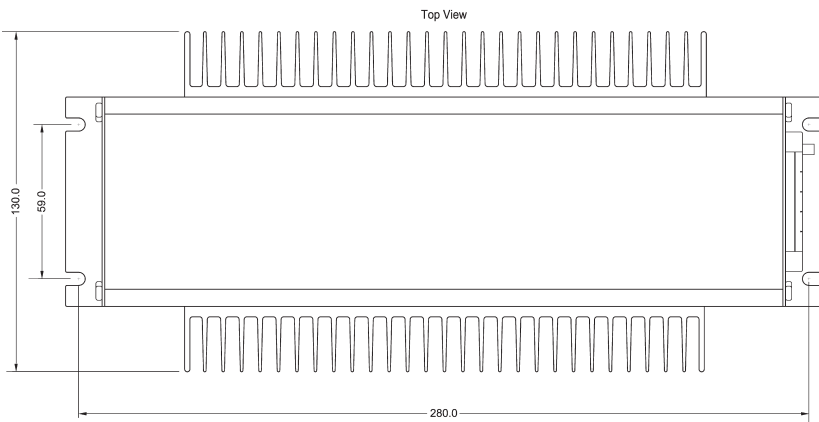
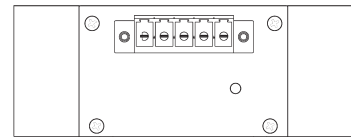
Right Side View



- NOTES:
1. Mounting Centres: 280 x 59mm, Suitable for M4 Hardware
 2. Input and Output: 5W Pluggable Screw Terminal Block suitable for up to 4 sq.mm wire



Right Side View



- NOTES:
1. Mounting Centres: 280 x 59mm, Suitable for M4 Hardware
 2. Input and Output: 5W Pluggable Screw Terminal Block suitable for up to 4 sq.mm wire

OPTIONAL HEATSINKS ATTACHED