

PBSP-96Z Series

96VDC, 3500 WATTS RAILWAY DC/AC INVERTER

Features

- Halogen free low smoke Radox cabling.
- ELCB on output, high gauge earthing system.
- High temperature operation with derating.
- 96Vdc input, 240Vac, 50Hz, 3.5KVA output.



Specifications

INPUT

Voltage	76-125Vdc
Current	40mA standby, 44A (96Vdc input), 125A max.
Under voltage cut-out	76Vdc.
Under voltage re-set	92Vdc.
Over voltage cut-out	125Vdc.
Over voltage re-set	122Vdc.
Input protection	Via 10kA MCB as per AS3111.

OUTPUT

Voltage	240Vac \pm 5%
Frequency	50Hz \pm 5%
Total harmonic distortion	3%
Surge power	250% max.
Output overload and short circuit protection	Shutdown, auto restart after 60 secs.
Output protection	Via 20A MCB / RCD as per AS3111 / AS3190. Output neutral connected to inverter chassis earth on inverter side of MCB / RCD.
Over temperature protection	Shutdown, auto restart.

OPERATING

Efficiency	90%–95% load dependent.
Isolation	Input – Output: 4250VAC Input – Ground: 1700VAC Output – Ground: 2250VAC

ENVIRONMENTAL

Operating temperature	0°C to 50°C at full load. Derate to 65°C at reduced duty cycle.
Cooling	Internal thermostatically controlled fan.
Shock and vibration	Unit has been mechanically strengthened.
Relative Humidity	95% non-condensing

STANDARDS AND APPROVALS

EMC	EN50121-3-2:2000.
C-Tick	AS/NZS2064:1997 Group 1 Class A

MECHANICAL

Dimensions	490x300x235mm
Weight	38kgs.
Enclosure	Powder coated aluminium.
Wiring	All internal wiring uses Radox 125 halogen free low smoke cable.
Mounting	Suitable for vertical or horizontal mounting.
DC input connector	MS3102-E28-22P-F80 Mil grade connector.
AC output connector	MS3102-R18-10S-F80 Mil grade connector.

Please refer to PBSP 740 spec for mechanical drawings.