

# PBSP 740 Series

72VDC, 4000 WATTS RAILWAY DC/AC INVERTER

## Features

- **High surge rating of 12kW.**
- **Halogen free low smoke Radox cabling.**
- **Earth leakage breaker on output.**
- **Strengthened against shock & vibration.**
- **Input spike & burst protection.**



## Specifications

### INPUT

Voltage	60-84Vdc
Current	40mA standby, 60A (74Vdc input), 160A max.
Under voltage cut-out	59Vdc.
Under voltage re-set	71Vdc.
Over voltage cut-out	90Vdc.
Over voltage re-set	87Vdc.
Input protection	100A, AS3111, 10kA MCB.

### OUTPUT

Voltage	240Vac $\pm$ 5%
Frequency	50Hz $\pm$ 1%
Total harmonic distortion	3%
Output power	4kW continuous.
Surge power	5kW, 30min; 12kW, 3sec.
Output overload and short circuit protection	Automatic 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 ambient. Derate to 65°C at reduced duty cycle.
Cooling	Internal thermostatically controlled fan.
Shock	4G $\pm$ 20% longitudinally
Vibration	Resonant search: 20-2.2mm double amplitude (1-9Hz) 2.2-0.8mm double amplitude (10-50Hz) Endurance: 3 hours per axis (X,Y,Z) at 50Hz 0.8mm double amplitude.
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 chassis.
Wiring	All internal wiring uses Radox 125 halogen free low smoke cable.
Mounting	Suitable for vertical or horizontal mounting.
DC input connector	MS3102 R28-22P F80 six crimp pin chassis receptacle.
DC mating connector	MS3108 E28-22SF80 right angle six crimp socket plug with strain relief. Supplied with unit

## OUTPUT CONNECTOR (PBSP-740-D Variant)

AC output connector	MS3102 R1810S F80. Four crimp socket chassis receptacle.
AC mating connector	MS3106 R1810P F80. Four crimp pin plug with strain relief supplied with the unit.

## OUTPUT CONNECTOR (PBSP-740-G Variant)

AC output connector	Three Wilco WIBM110-LE
Terminations	Single phase 10A 3 flat IP56 insulated socket outlets.

