

# PB169/253/254

100-138 WATTS RAILWAY DC/DC CONVERTERS

## Features

- Input reverse polarity protected.
- Input transient protected.
- Input surge protection.
- Meets IEC571, BRB12, BRB13 and BRB18 for input transients and surges



## SPECIFICATIONS

INPUT		
Voltage	PB169:	20-30Vdc.
	PB253:	18-50Vdc.
	PB254:	74-138Vdc.
Input ripple voltage	30% of Vin	
Input reverse polarity protection	800V indefinitely.	
OUTPUT		
Output voltage	PB169:	24Vdc.
	PB253:	24Vdc.
	PB254:	13.8Vdc.
Output current	PB169:	4.2A.
	PB253:	2.9A for VIN=18-50Vdc
		4.2A: VIN=20-30Vdc
	PB254:	10A.
Output power	PB169:	100W.
	PB253:	100W.
	PB254:	138W.
Line & load regulation	±0.36Vdc (PB169/253).	
	±0.10Vdc (PB254).	

OPERATING	
Efficiency at full load	73%–80%
Isolation (with VR1 & VR2 removed)	Input – Output: 1000VAC Input – Ground: 1000VAC Output – Ground: 500VAC
ENVIRONMENTAL	
Operating Temperature	-20°C to 45°C (PB169, PB253). -10°C to 60°C (PB254).
STANDARDS	
Input transient and surge protection	Designed to meet BRB 12, BRB 13, BRB 18 and IEC571-1.
MECHANICAL	
Connections	6-way terminal block connector
Dimensions	PB169: 60 x 111x 177mm. PB253: 60 x 111 x 177mm. PB254: 60 X 111 X 205mm
Mounting	Four M4 slots