

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.
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Input ripple voltage	30% of Vin
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Input reverse polarity protection	800V indefinitely.
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OUTPUT

Output voltage	PB169: 24Vdc. PB253: 24Vdc. PB254: 13.8Vdc.
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Output current	PB169: 4.2A. PB253: 4.2A. PB254: 10A.
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Output power	PB169: 100W. PB253: 100W. PB254: 138W.
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Line & load regulation	±0.36Vdc (PB169/253). ±0.10Vdc (PB254).
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OPERATING

Efficiency at full load	73%–80%
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Isolation	Input – Output: 1000VAC
(with VR1 & VR2 removed)	Input – Ground: 1000VAC
	Output – Ground: 500VAC

ENVIRONMENTAL

Operating Temperature	-20°C to 45°C (PB169, PB253). -10°C to 60°C (PB254).
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STANDARDS AND APPROVALS

Input transient and surge protection	Designed to meet BRB 12, BRB 13, BRB 18 and IEC571-1.
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C-Tick	AS/NZS2064:1997 Group 1 Class A
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MECHANICAL

Connections	6-way terminal block connector
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Dimensions	PB169: 60x111x60mm. PB253: 60x111x60mm. PB254: 60x158x205mm.
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Mounting	Four M4 slots
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