PI SERIES

Pure Sine Wave Inverters



PI2000B3R

2000 W (resistive load)



PI2000B6R

2000 W (resistive load)



PI3000B3R

3000 W (resistive load)



PI3000B6R

3000 W (resistive load)

Customer _____

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Contents and Approval

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Customer Approval

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Approval		

PI SERIES

Revision History and Overview

Series	Revision	Date
PI	R4	2026-11-16

This specification covers the PI2000B3R, PI2000B6R, PI3000B3R and PI3000B6R pure sine wave inverters.

Designed for 12 V battery systems with 120 V AC output.

Available with 2000 W and 3000 W continuous output power (resistive load).

B3R models provide inverter output. B6R models add AC input and utility-priority automatic transfer.

Equipped with AC outlets, a high-output AC terminal block and a USB-A port.

Supports a wired LCD remote displaying input voltage, output power and fault status.

Provides ground-fault, short-circuit, overload, overtemperature and input overvoltage/undervoltage protection.

PI SERIES

Electrical Specifications

Parameter	PI2000B3R	PI2000B6R	PI3000B3R	PI3000B6R
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Continuous output power (resistive load)	2000 W	2000 W	3000 W	3000 W
Surge output power	4000 W	4000 W	6000 W	6000 W
Nominal DC input voltage	12.8 - 13.2 VDC	12.8 - 13.2 VDC	12.8 - 13.2 VDC	12.8 - 13.2 VDC
Operating input voltage	10.0 - 16.0 VDC	10.0 - 16.0 VDC	10.0 - 16.0 VDC	10.0 - 16.0 VDC
Nominal AC output voltage	120 VAC ±10%	120 VAC ±10%	120 VAC ±10%	120 VAC ±10%
Output frequency	60 ± 3 Hz	60 ± 3 Hz	60 ± 3 Hz	60 ± 3 Hz
Maximum inverter efficiency	90%	90%	90%	90%
Full-load inverter efficiency	87%	87%	87%	87%
Typical no-load current	1.4 ADC	1.4 ADC	1.4 ADC	1.4 ADC
Nominal AC input voltage	—	120 VAC	—	120 VAC

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Protection Functions

Parameter	PI2000B3R	PI2000B6R	PI3000B3R	PI3000B6R
Input overvoltage shutdown	16.0 ± 0.5 VDC	16.0 ± 0.5 VDC	16.0 ± 0.5 VDC	16.0 ± 0.5 VDC
Input undervoltage alarm	10.5 ± 0.5 VDC	10.5 ± 0.5 VDC	10.5 ± 0.5 VDC	10.5 ± 0.5 VDC
Input low-voltage shutdown	10.0 ± 0.5 VDC	10.0 ± 0.5 VDC	10.0 ± 0.5 VDC	10.0 ± 0.5 VDC
Output overload shutdown threshold	2400 ± 400 W	2400 ± 400 W	3400 ± 400 W	3400 ± 400 W
Input fuses	40 A × 8	40 A × 8	40 A × 10	40 A × 10

Protection function	Function
Ground-fault protection (GFCI)	Supported
Output short-circuit protection	Supported
Overtemperature protection	Supported

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Interfaces and Controls

Parameter	PI2000B3R	PI2000B6R	PI3000B3R	PI3000B6R
AC output sockets	2	2	4	4
High-output AC terminal block	1	1	1	1
AC input terminal block	None	1	None	1
Utility-priority automatic transfer	Not supported	Supported	Not supported	Supported
USB port	USB-A × 1	USB-A × 1	USB-A × 1	USB-A × 1
USB output	5 V / 2.1 A	5 V / 2.1 A	5 V / 2.1 A	5 V / 2.1 A
Control switch	ON / OFF / REM	ON / OFF / REM	ON / OFF / REM	ON / OFF / REM
Wired remote control	LCD	LCD	LCD	LCD
Remote display	Input voltage, output power and fault status	Input voltage, output power and fault status	Input voltage, output power and fault status	Input voltage, output power and fault status
Status indicators	Power, fault and GFCI	Power, fault and GFCI	Power, fault and GFCI	Power, fault and GFCI

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Dimensions and Weight

Parameter	PI2000B3R	PI2000B6R	PI3000B3R	PI3000B6R
Housing material	Metal	Metal	Metal	Metal
Length	≈359.9 mm	≈359.9 mm	≈398.0 mm	≈398.0 mm
Width	≈230.1 mm	≈230.1 mm	≈260.1 mm	≈260.1 mm
Height	≈95.5 mm	≈95.5 mm	≈105.4 mm	≈105.4 mm
Unit weight	≈4.21 kg	≈4.21 kg	≈5.51 kg	≈5.51 kg