power-one®
Changing the Shape of Power

AURORA®
Wind Inverter

General Specifications
Outdoor models

PVI-3.0-OUTD-W-US
PVI-3.6-OUTD-W-US
PVI-4.2-OUTD-W-US

Optional Wind interface Box

High-Efficiency, 3.0-3.6-4.2kW Wind Inverters

Aurora® grid-tie transformerless wind inverters offer a unique combination of ultra-high efficiencies, installer-friendly designs, long service life, and competitive initial acquisition costs; significantly increasing return on investment in wind-power installations.

Industry-Leading Features and Performance

- High efficiencies deliver more energy – up to 96.8% (96% CEC).
- MPPT optimize power from eolic generator.
- PMG (Permanent Magnet Generator) Power Curve implemented in high speed MPPT

Unmatched Applications Flexibility

- Full-rated power available up to 55°C ambient temperature.
- Wide MPPT operating range: from 50VDC to 580VDC

Field-Proven Reliability

- IP65 (NEMA 4) rated enclosure withstands the harshest environmental conditions.
- Front-mounted heat sink resists contamination, enhancing cooling and increasing reliability and long-term efficiency.
- Grid-connected operation in according to international standard UL1741/EEE1547
- Five-year warranty, optionally extendable to ten years.

Installer Friendly

- Reverse-polarity protection minimizes potential damage caused by miswiring during installation.
- Front-panel mounted LCD display provides real-time updates for all critical operating parameters.
- RS-485 and USB communications interfaces.
- Anti islanding protection.
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Model	*AC Power*
PVI-3.0-OUTD-W-US	3000 W
PVI-3.6-OUTD-W-US	3600 W
PVI-4.2-OUTD-W-US	4200 W
Options	
AURORA® Communicator software simplifies monitoring via PC	
AURORA® Easy Control data logger available for remote control via Internet, modem, or GSM	
Interface Box	

Standards and Codes

Aurora inverters comply with standards set for grid-tied operation, safety, and electromagnetic compatibility including: UL1741, VDE0126, CEI11-20, DK5940, CEI64-8, IEC 61683, IEC 61727, EN50081, EN50082, EN61000, CE certifi cation, El Real Decreto RD1663/2000 de España.

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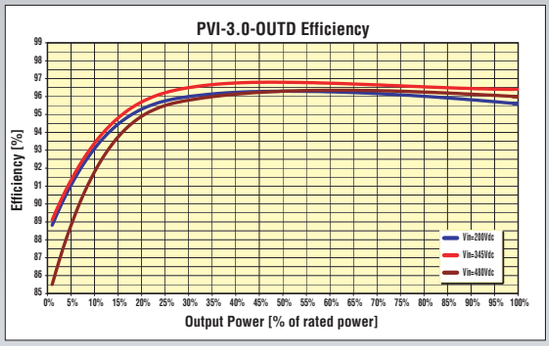
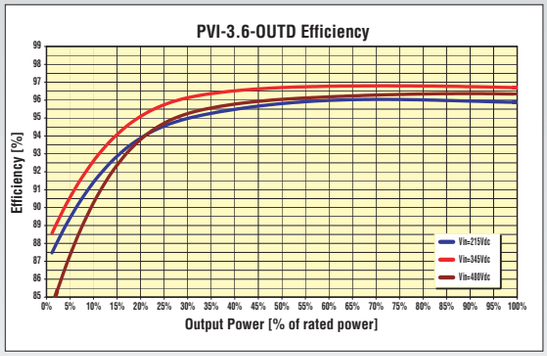
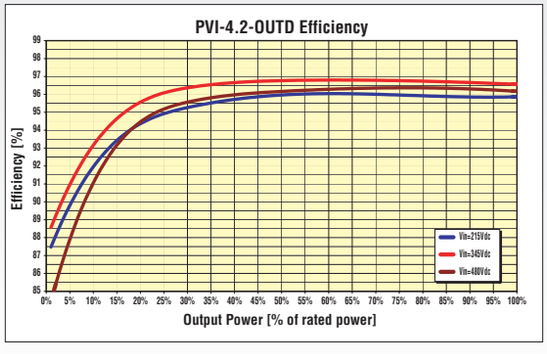
High Efficiencies Across a Broad Range of Operating Conditions

PVI-3.0, PVI-3.6, and PVI-4.2 wind inverters work with nominal output voltage, at up to 96.8% efficiency (CEC 96%). The graph below depicts the industry-leading performance of all models at three discrete MPPT-voltage reference points, and a continuous range of load conditions.

SPECIFICATIONS	PVI-3.0-OUTD-W-US	PVI-3.6-OUTD-W-US	PVI-4.2-OUTD-W-US
INPUT PARAMETERS (DC Side)			
Nominal DC Power	3120 W	3750 W	4380
Total Max DC Power	3500 W	4150 W	4820 W
Operating MPPT Input Voltage Range	50 V to 580 V (360Vnominal)		
Full Power MPPT Range	200 V to 530 V	200 V to 530 V @ Vgrid 277 V 200 V to 530 V @ Vgrid 240 V 220 V to 530 V @ Vgrid 208 V	200 V to 530 V @ Vgrid 277 V 220 V to 530 V @ Vgrid 208 V 220 V to 530 V @ Vgrid 208 V
Max Input Voltage	600 V		
Activation Voltage	200 V nominal (adjustble from 50 V to 350 V)		
Max. DC Current	20A (25A short circuit)	32A (40A short circuit)	32A (40A short circuit)
Thermal Protected DC side varistor	4		
DC Connectors	4 (2 positive; 2 negative) Screw Terminal Block Wire sizes : Solid, from, AWG20 to AWG 6 - Stranded, from AWG20 to AWG 9 Cable Gland: M25 - Cable diameter: 3/8" to 11/16"		
OUTPUT PARAMETER (AC Side)			
Nominal AC Power	3000 W	3600 W	4200 W
Max AC Power	3300 W	4000 W	4600 W
AC Grid Connection	split phase 240V - single phase 208V/277V		
Nominal AC Voltage	Default 240V; Optional 208V or 277V (setting required)		
AC Voltage Range	277 V (244-304)	240 V (211÷264)	208 V (183÷ 228)
Nominal AC Frequency	60 Hz		
Continous AC Output Current	12A - 14.5A - 14.5A	16A - 17.2A - 17.2A	20A - 20A - 20A
Maximum Output OC Protection	15A - 20A - 20A	15A - 25A - 25A	25A - 25A - 25A
AC Side varistor	2 (live-netrual / live-PE)		
AC Connectors	Screw Terminal Block Wire sizes : Solid, from, AWG20 to AWG 6 - Stranded, from AWG20 to AWG 8 Cable Gland: M25 - Cable diameter: 3/8" to 11/16"		
Line Power Factor	1		
AC Current Distrortion	< 2% at rated power with sine wave voltage		
Max Efficiency	96.8%		
CEC Efficiency	96%		
Feed in Power Threshold	20W		
Night Time Consumption	<2W		
Isolation	NO (trasformer less topology)		
ENIRINMENTAL PARAMETERS			
Cooling	Natural Convection		
Operating Ambient Temperature Range	-25°C to +60°C output power derating forTamb > 55°C		-25°C to +60°C derating for Tamb > 45°C
Operating Altitude	6,000 ft		
Acustical Noise	< 50 dBA @ 1mt		
Environmental NEMA rating	NEMA 4X		
Relative Humidity	0-100% condensing		
MECHANICAL			
Dimensions (HxWxD)	547x352x208mm - (21 1/2", 12 3/4", 8 1/4")		
Weight	17 Kg - (37.5 lbs)		
OTHERS			
Display	YES (Alphanumeric, 2 lines)		
Communication	RS485 (spring terminal block - wire cross section: AWG28-16) USB connection (for Service only) "AURORA Easy Control" system for remote control (Optional)		







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