

General Specifications Outdoor Models

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



Optional Wind interface Box



High-Efficiency, 3 kW to 4.2 kW 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 optimizes 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 50 to 580 VDC

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 accordance to international standard UL1741/IEEE1547.
- Five-year warranty, optionally extendable to ten years.

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 certification, El Real Decreto RD1663/2000 de España.

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.

<i>Model</i>	<i>AC Power</i>
PVI-3.0-OUTD-US-W	3000 W
PVI-3.6-OUTD-US-W	3600 W
PVI-4.2-OUTD-US-W	4200 W
<i>Options</i>	
AURORA [®] Communicator software simplifies monitoring via PC	
AURORA [®] Easy Control data logger available for remote control via Internet or modem.	
Interface Box	

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 graphs below depict 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 (adjustible 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 4 (2 positive; 2 negative) Screw Terminal Block		
DC Connectors	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		
Continuous AC Output Current	12A - 14.5A - 14.5A	16A - 17.2A - 17.2A	20A - 20A - 20A
Maximum Output DC Protection	15A - 20A - 20A	15A - 25A - 25A	25A - 25A - 25A
AC Side Varistor	2 (live-neutral / live-PE) Screw Terminal Block		
AC Connectors	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 Distortion	< 2% at rated power with sine wave voltage		
Max Efficiency	96.8%		
CEC Efficiency	96%		
Feed in Power Threshold	20W		
Nighttime Consumption	<2W		
Isolation	NO (transformerless topology)		
ENVIRONMENTAL PARAMETERS			
Cooling	Natural Convection		
Operating Ambient Temperature Range	-25 °C to +60 °C output power derating for Tamb > 55 °C	-25 °C to +60 °C derating for Tamb > 45 °C	
Operating Altitude	6,000 ft		
Acoustical 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)		

