PVI-6000-OUTD-W

GENERAL SPECIFICATIONS WIND MODELS

PVI-6000-OUTD-W-US



Aurora grid-tie transformerless wind inverters offer a unique combination of ultra-high efficiencies, installer-friendly designs and long service life. A major selling point of the Aurora Wind inverter is its very wide input voltage range ensuring power is continuously harvested from the lightest breeze to the strongest wind.

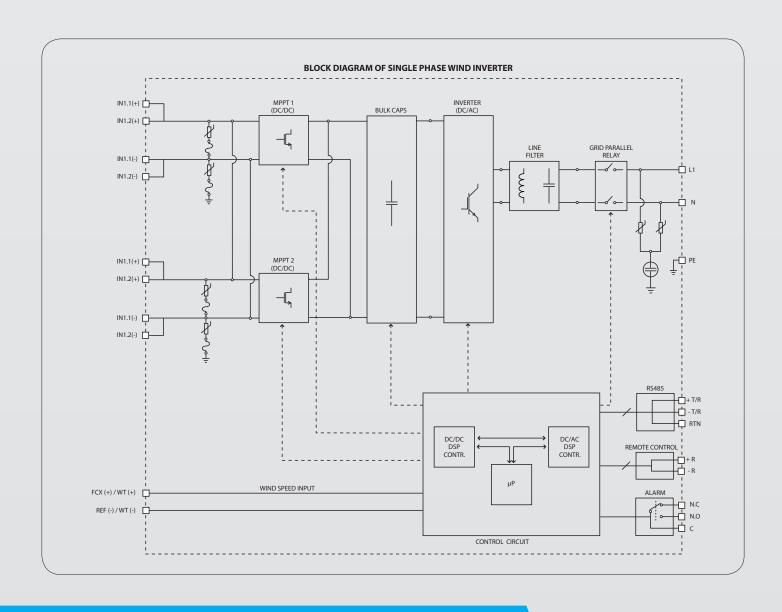
The competitive initial acquisition costs matched with the high efficiencies of up to 97% significantly increase return on investment on wind-power installations.

This compact, weather-sealed inverter has a 16-point profile to best match the power curve of each wind turbine.

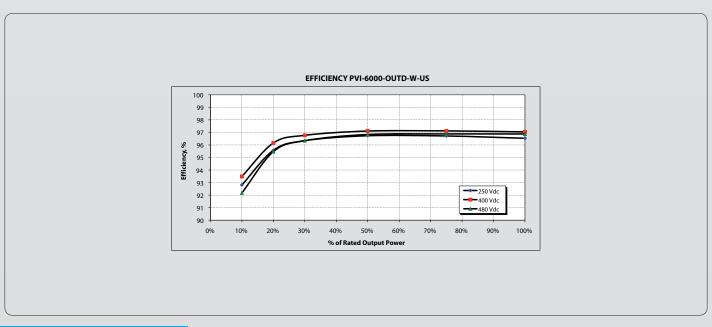
Features

- Single Phase 208/240/277 Vac
- Transformerless operation for highest efficiency
- · Power curve customization with high granularity to reach high level of power production yield
- Watertight NEMA 4X (IP65) enclosure
- Compact size and high power density
- Optimized real time power curve tracking algorithm and improved energy harvesting
- Anti-Islanding Protection
- Reverse polarity protection minimizes chance of damage due to incorrect wiring when used in conjunction with Aurora PVI-WIND-INTERFACE BOX.
- High overload capability: works up the power max limits under most ambient conditions
- Connectivity with Wind Box Interface 25kW
- Connectivity with Wind Box Interface 7200W





Block Diagram and Typical Efficiency



CHARACTERISTICS	PVI-6000-OUTD-W-US			
INPUT PARAMETERS				
Rated DC Power	6180 Wp			
Rated Input Voltage Range		360 V		
Operating Input Voltage Range	50 - 580 V			
Full Power Input Voltage Range		180 - 530V		
Activation Voltage "Vstart"		adj. 50-200 V		
Absolute Maximum Input Voltage		600 V		
Maximum Operating Input Current		36 A		
DC Connections	4 (2 Positive, 2 Negative) Screw Terminal Block 3 Knock-Outs: 1 ½" or 1" (w/ ring red.)			
INPUT PROTECTION				
Maximum DC Overcurrent Protection		44 A		
DC Side Varistor	4 Thermally Protected			
Isolation Control		GFĎI ⁽¹⁾		
OUTPUT PARAMETERS	208 V	240 V	277 V	
AC Grid Connection		Single Phase / Split Phase		
Rated AC Power		6000 W		
Maximum AC Power		6000 W		
Rated AC Voltage	208 V	240 V	277 V	
Maximum AC Voltage Range	183-228 V	211-264 V	244-304 V	
Rated AC Frequency		60 Hz		
Maximum AC Line Current	30 A	28 A	24 A	
Line Power Factor		> 0.99		
AC Current Distorsion (TDH)		< 2%		
AC Connection		Screw Terminal Block 3 Knock-Outs: 1 ½" or 1" (w/ ring red.)		
OUTPUT PROTECTION				
AC Side Varistor		2 (L - N /L - PE)		
Maximum Output Fault Current	40 A	35 A	30 A	
Anti Islanding Protection		According to UL 1741/IEE1547		
CONVERSION EFFICIENCY				
Maximum Efficiency		97.0%		
ENVIRONMENTAL PARAMETERS				
Cooling		Natural Cooling		
Ambient Temperature Range	-25/+ 60	-25/+ 60°C (-13/140°F) with derating above 50°C (122°F)		
Operating Altitude		6000 ft		
Acustical Noise		< 50 dB		
Environmental Protection Rating		NEMA 4X (IP65)		
Relative Humidity	< 100% Condensing			
MECHANICAL				
Dimensions (H x W x D)	31.9" x 12.8" x 8.3"			
Weight		58 lb		
OTHERS				
Stand -By Consuption		< 8W		
Feed In Power Consumption		20.0 W		
Isolation		None due to Transformerless Topology		
Display		Alphanumeric -2 Lines		
Communication		RS 485 Wireless (Optional)		
AVAILABLE PRODUCT VARIANTS				
Standard - No Options STANDARD & CODES		PVI-6000-OUTD-W-US		
STANDARD & CODES	U	UL 1741,IEEE 1547,CSA - C22.2 N. 107.1-01		

(1) GFDI - Ground Fault Detector Interrupter