

## General Specifications Outdoor models PVI-6000-OUTD-US-W PVI-6000-OUTD-IT-W PVI-6000-OUTD-ES-W



Wind Interface Box  
opzionale



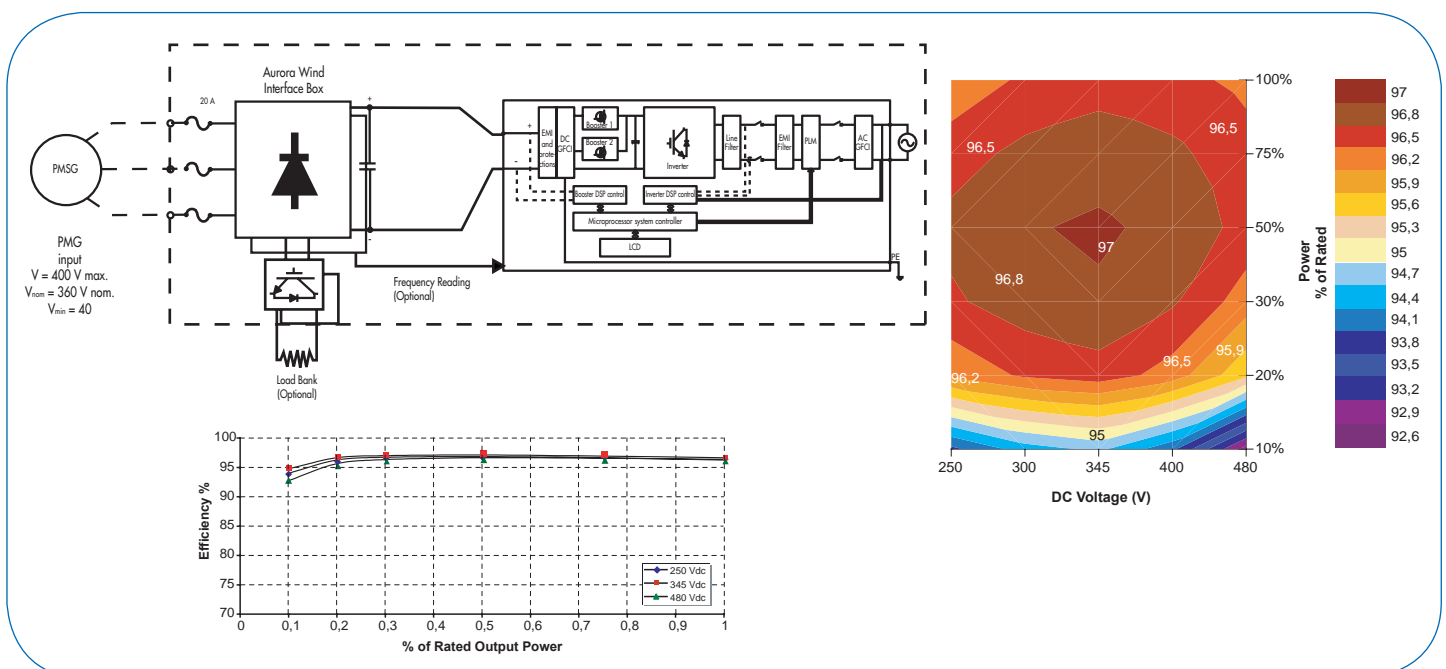
### AURORA® BENEFITS

- IP65 (NEMA 4) ruggedized, completely sealed unit to stand the harshest environmental conditions
- High speed MPPT for real time power tracking and improved energy harvesting
- Compact size and high power density: 6000W (6000W max) of output power in a box just 740mm x 325mm x 195mm (29 1/8" x 12 3/4" x 7 5/8")
- Front heatsink keeps the unit cleaner and more efficient over time
- Transformerless operation for highest efficiency: up to 97% (96,5% Euro; 96,5% CEC)
- 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 to 6000W under most ambient conditions
- True Sine Wave Output
- Anti-islanding Protection
- Certified grid connected operation according to the International standards
- LCD Display on the front to monitor the main parameters
- Integrated RS-485 serial communication
- WIND INTERFACE BOX is optional

### HIGH PERFORMANCE REDEFINED

The revolutionary switching technology utilized in the Aurora inverter includes state-of-the-art for silicon Power Devices such as CoolMOS™ and Insulated Gate Bi-polar Transistors (IGBT's) to reduce switching losses. Aurora has been designed with substantial derating of all critical components, achieving an extremely robust and reliable inverter designed to last for 25 years and to deliver rated maximum output power on a continuous basis. With this design concept we achieve peak efficiencies of over 97%. Total current harmonic distortion, on the other hand, is typically less than 1% thanks to the use of high-frequency switching techniques.

### Block Diagram and typical efficiency



CHARACTERISTICS	PVI-6000-OUTD-US-W	PVI-6000-OUTD-IT-W	PVI-6000-OUTD-ES-W
Output Power Rating Ac [W]	6000	6000	6000
Absolute Max Input Voltage [Vdc]	600	600	600
Max. Power Tracking Window range [Vdc]	50 to 580 (360 nominal)	50 to 580 (360 nominal)	50 to 580 (360 nominal)
Input Configuration (Max. Idc =18 A for each channel)	Two channel in parallel with common MPPT	Two channel in parallel with common MPPT	Two channel in parallel with common MPPT
Nominal AC Voltage (Range) [Vrms]	240V split phase, Optional - 208V or 277V Single Phase	Single-phase 200-245 (180-264) (may vary to comply with regulations in each country)	Single-phase 200-245 (180-264) (may vary to comply with regulations in each country)
Nominal AC Frequency [Hz]	60	50	50
Line Power Factor	1	1	1
Maximum AC Line Current [Arms]	30	30	30
AC Current Distortion [%]	<2% THD at rated power with finewave voltage	<2% THD at rated power with finewave voltage	<2% THD at rated power with finewave voltage
Max Efficiency [%]	97 (96.5% CEC)	97 (Euro 96.4)	97 (Euro 96.4)
Tare Losses [mW]	250	<1500	250
Operating Ambient Temperature [°C]	-25 to +60	-25 to +60	-25 to +60
Enclosure Environmental Rating	NEMA 4X	IP65	IP65
Relative Humidity	0-100% condensing	0-100% condensing	0-100% condensing
Elevation	derated above 2.000 m (6,600ft)	derated above 2.000 m (6,600ft)	derated above 2.000 m (6,600ft)
Audible Noise [dBA]	<50@ 1m	<50@ 1m	<50@ 1m
Size (height x width x depth) [mm]	740 x 325 x 195 (29 1/8" x 12 3/4" x 7 5/8")	740 x 325 x 195	740 x 325 x 195
Weight [kg]	26 (57.3 lbs)	26	26

## SMART CONTROLS

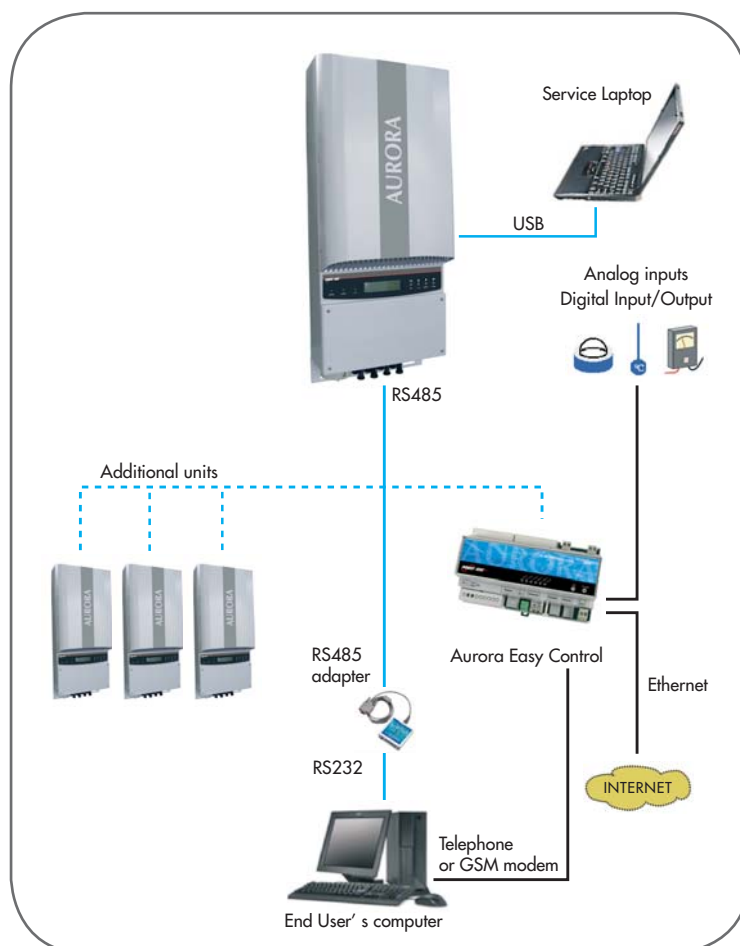
Aurora controls are DSP (Digital Signal Processor) based with sophisticated control and self-diagnostics algorithms. An LCD shows the main operational parameters. Three LED's indicate the operating status.

## BEST IN CLASS COMMUNICATION CAPABILITIES

Aurora features an integrated RS485 Communication link. An RS485 to RS232 converter (optional) is available to monitor the unit.

## STANDARDS AND CODES

Aurora inverters comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: CE Certification, CSA- C22.2 N.107.1-01, UL1741, CLEAR SKIES G83/1, CEI 11-20 IV ed, DK 5940, IEC 61683, IEC 61727, EN 50081, EN50082, EN61000.



Rev. 1.1 - 08/04/08 - Aurora is a trademark by Power-One - Product is subject to technical improvements