AURORA®
Photovoltaic Inverters

power-one®
Changing the Shape of Power

General Specifications
Outdoor models
PVI-6000-OUTD / PVI-6000-OUTD-S / PVI-6000-OUTD-DS

AURORA® BENEFITS

- Dual input section to process two strings with independent MPPT (6000W max models)
- 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
- Front heatsink keeps the unit cleaner and more efficient over time
- Transformerless operation for highest efficiency: up to 97% (96,5% Euro)
- Reverse polarity protection minimizes chance of damage due to mis-wiring
- 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
- Standard DC Multi-Contact terminals, screw terminals option available
- PVI-6000-OUTD-S includes an integrated DC switch, also available in combination with blocking diodes (PVI-6000-OUTD-DS) for the use with parallel connected PV arrays (see block diagram on the back side)

HIGH PERFORMANCE REDEFINED

The revolutionary switching technology utilized in the Aurora inverter includes state-of-the-art for silicon Power Devices such as Silicon Carbide Diodes, CoolMOSTM and Insulated Gate Bi-polar Transistors (IGBT's) to reduce switching losses. Aurora has been designed with large de-rating criteria on all critical components, achieving an extremely robust and reliable inverter designed to last for 25 years and to deliver true 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 2% through the use of high-frequency switching techniques. Another exclusive advantage is Aurora's two source circuit inputs, each with its own MPPT (Max Power Point Tracker) for installations with multiple arrays (available on the PVI-6000 model only).

BLOCK DIAGRAM AND TYPICAL EFFICIENCY