**General Specifications**

**Outdoor models**

**PVI-2000-OUTD-AU**

**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: 2000W of output power in a box just 420mm x 326mm x 141mm
- Front heatsink keeps the unit cleaner and more efficient over time
- Transformerless operation for highest efficiency: up to 95.5%
- Reverse polarity protection minimizes chance of damage due to mis-wiring
- High overload capability: works up to 2000W under most ambient conditions
- True Sine Wave Output
- Anti-islanding Protection (in countries where required)
- Certified grid connected operation according to the international standards
- LCD Display on the front to monitor the main parameters
- Standard DC Multi-Contact terminals, screw terminals option available

**SMART CONTROLS**

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

**STANDARDS AND CODES**

### MODEL SUMMARY

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<th>MODEL NUMBER</th>
<th>POWER</th>
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<td>PV-2000-OUTD</td>
<td>2000W</td>
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### POWER PARAMETERS

- **Nominal DC Power (kW):** 2.1
- **Max. Recommended DC Power (kW):** 2.3
- **Operating Input Voltage Range (V):** 90 - 580 (360 nominal)
- **Full Power MPPT input voltage range (symmetrical load) (V):** 210-530
- **Full asymmetrical load input voltage range (V):** NA
- **Absolute Max. Input Voltage (V):** 800
- **Activation voltage “Vstart” (V):** 200 nominal (adjustable within the range 120Vdc-350Vdc)
- **No of independent MPPT trackers:** 1
- **Max. Input Power, each MPPT (kW):** 2.1
- **DC Current, each MPPT (A):** 10 (12 shortcircuit)
- **DC Connection:** MultiContact Ø 3mm (male - positive input + female - negative input)
- **Conductor cross section:** 4-6mm²/AWG12-10 - Cable Ø w/insulator: 3-6mm

### INPUT PROTECTION

- **Reverse polarity protection:** Yes
- **Fuse rating, each input (+FS suffix versions only):** NA
- **DC side varistors:** 2, thermally protected
- **PV array Insulation Control:** according to VDE0126-1-1
- **DC Switch (+S/-FS suffix versions only):** NA

### OUTPUT PARAMETERS

- **Nominal AC Power (up to 40°C, kW):** 2
- **Max. AC Power (kW):** 2
- **AC Grid Connection:** single phase 230Vac 50Hz + PE
- **Nominal AC Voltage (V):** 180-264
- **Nominal AC Frequency (Hz):** 50
- **Max. AC Line Current (A):** 9
- **AC Connection:** Circular Bayonet Connector
  - Conductor Cross Section: Solid / Stranded: 0,5-2,5mm² / AWG 20-14
  - Outer Cable Ø: 10-12mm
- **Line Power Factor:** 1
- **AC Current Distortion (THD%):** <2.5% at rated power with sine wave voltage

### CONVERSION EFFICIENCY

- **Max. Efficiency:** 95.5%
- **Euro Efficiency:** 94.4%

### ENVIRONMENTAL PARAMETERS

- **Cooling:** Natural cooling
- **Ambient Temp. Range (°C):** -20 / +60 (output power derating above 50°C)
- **Operating Altitude (m):** 2000
- **Acoustical Noise (dBA):** <40 @1m
- **Environmental IP Rating:** 0-100% condensing

### MECHANICAL

- **Dimensions (H x W x D):** 420 x 326 x 141
- **Weight (kg):** 12

### OTHER

- **Stand-by Consumption (W):** 8
- **Feed In Power Threshold (W):** 10
- **Night time consumption (W):** 0.3
- **Isolation:** No isolation, Transformer-less
- **Display:** YES (Alphanumeric 2 lines)

### COMMUNICATION

- **Communication:** RS485 (screw terminal block - Connector cross section: 0.08-1.5mm²/AWG28-16)
  - Optional “Aurora Easy Control” remote monitoring system

### AVAILABLE PRODUCT VARIANTS

- **Standard - no options:** PV-2000-OUTD
- **With DC switch:** NA
- **With DC switch and protection fuse/each input:** NA