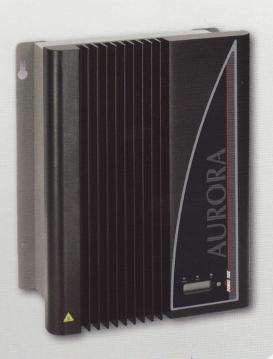


General Specifications Outdoor models PVI-2000-OUTD

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 96%
- 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
- · 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



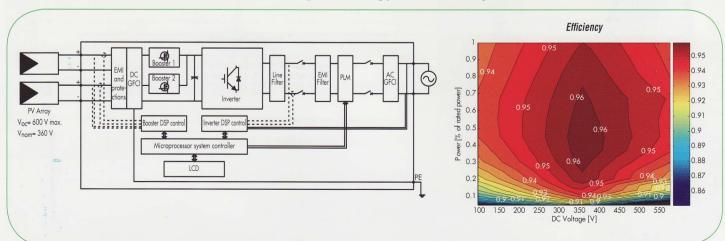
SMART CONTROLS

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

Aurora inverters comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: VDE0126, CEI 11-20 IV ed, DK5940, IEC 61683, IEC 61727, EN50081, EN50082, EN61000, CE certification, El Real Decreto RD1663/2000 de España.

Block Diagram and typical efficiency







	7
CHARACTERISTICS	PVI-2000-OUTD
NPUT PARAMETERS	
ominal DC Power [kW]	2,1
lax. Recommended DC Power [kW]	2,3
perating Input Voltage Range [V]	90 - 580 (360 nominal)
ull Power MPPT input voltage range (symmetrical load) [V]	210-530
ull asymmetrical load input voltage range [V]	NA NA
bsolute Max. Input Voltage [V]	600
ctivation voltage "Vstart" [V]	200 nominal (adjustable within the range 120Vdc-350Vdc)
o of independent MPPT trackers	
lax. Input Power, each MPPT [kW]	2
o. of DC Inputs	40 (40 about in with
lax. DC Current, each MPPT [A]	10 (12 shortcircuit)
	1 (1 positive, 1 negative)
C Connection	MultiContact Ø 3mm (male - positive input + female - negative input) Mating cable connector included
	maning cable connector included Conductor cross section: 4-6mmq/AWG12-10 - Cable Ø w/insulator: 3-6mm
IDIT PROTECTION	CONDUCTOR CROSS SECTION: 4-ORDING/AWG12-10 - CADIE D WITISUIATOR. 3-ORDIN
IPUT PROTECTION	Yes
everse polarity protection use rating, each input (-FS suffix versions only)	TES NA
se ranny, each input (-rs sumx versions only) C side varistors	2, thermally protected
Varray Insulation Control	according to VDE0126-1-1
C Switch (-S/-FS suffix versions only)	NA
UTPUT PARAMETERS	IVA
ominal AC Power [up to 40°C, kW]	2
ax. AC Power [kW]	2
C Grid Connection	single phase 230Vac 50Hz + PE
ominal AC Voltage [V]	230
laximum AC Voltage Range [V]	180-264
ominal AC Frequency [Hz]	50
lax. AC Line Current [A]	9
ILIX. TIO CHILO GUITOIN [11]	Circular Bayonet Connector
C Connection	Conductor Cross Section: Solid / Stranded: 0,5-2,5mmg / AWG 20-14
	Outer Cable Ø: 10-12mm
ine Power Factor	
C Current Distortion [THD%]	<2,5% at rated power with sine wave voltage
UTPUT PROTECTION	
C side varistors	2, plus gas arrester to ground
round fault protection (AC + DC leakage current)	according to VDE0126-1-1
ONVERSION EFFICIENCY	
Max. Efficiency	96%
uro Efficiency	95,00%
NVIRONMENTAL PARAMETERS	
ooling	Natural cooling
mbient Temp. Range [°C]	-20 / +60 (output power derating above 50°C)
pertaing Altitude [m]	2000
coustical Noise [dBA]	<40 @1mt
nvironmental IP Rating	IP65
lelative Humidity	0-100% condensing
MECHANICAL MARKET MARKE	100, 200, 444
limensions [H x W x D]	420 x 326 x 141
/eight (kg)	12
THER	
tand-By Consumption [W]	8
eed in Power Threshold [W]	10
light Time consumption [W]	0,3
solation	No isolation, Transformer-less
	YES (Alphanumeric 2 lines) RS485 (screw terminal block - Conductor cross section: 0,08-1,5mmq/AWG28-16)
Jispiay	RSAX5 (screw terminal block - Conductor cross section: I) (18-1 5mmg/AWG28-16)
Display Communication	Optional "Aurora Easy Control" remote monitoring system
Communication AVAILABLE PRODUCT VARIANTS	Optional "Aurora Easy Control" remote monitoring system
Communication	

MODEL SUMMA	RY
MODEL NUMBER	POWER
PVI-2000-OUTD	2000W

