

General Specifications Indoor models PVI-2000-AU PVI-3600-AU

AURORA BENEFITS

- Dual input section to process two strings with independent MPPT (3600W models)
- Robust IP21 (NEMA 2) indoor enclosure and conformal coating of the boards to stand harsh environmental conditions
- High speed, advanced MPPT controls for maximum energy harvesting
- Very compact and light design for ease of installation: 3600W of output power in a box just 440mm x 465mm x 57mm weighting less than 7.5kg (16,5 lbs)
- Graphical LCD Display on the front panel with integrated data logger
- Transformerless operation for highest efficiency: up to 96%
- Reverse polarity protection minimizes chance of damage due to mis-wiring
- True Sine Wave Output
- Anti-islanding protection (in countries where required)
- · Certified grid connected operation according international standards



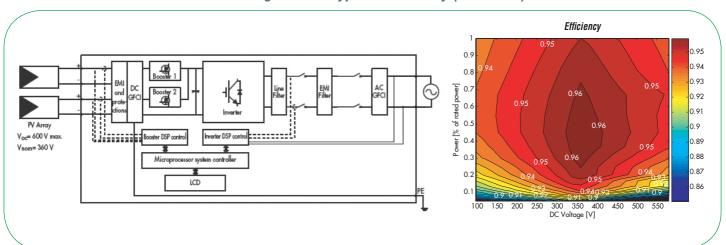
SMART CONTROLS

Aurora controls are DSP (Digital Signal Processor) based with sophisticated control and self-diagnostic algorithms. A 128 x 128 graphical LCD display shows the unit's operating status, its performance and diagnostic messages. Four scrolling keys on the front panel of the unit are used to navigate menus for data display and parameter settings.

STANDARDS AND CODES

Aurora inverters comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: AS/NZS 3100:2002, AS4777.2 and AS4777.3, VDE0126, CEI 11-20 IV ed, DK5940, IEC 61683, IEC 61727, EN50081, EN50082, EN61000, CE certification, El Real Decreto RD1663/2000 de España, G83/1.

Block Diagram and typical efficiency (PVI-3600)





CHADACTERISTICS	DI// 2000	DIVI 2500
CHARACTERISTICS INPUT PARAMETERS	PVI-2000	PVI-3600
Nominal DC Power [kW]	2,1	3,8
Max. Recommended DC Power [kW]	2,3	4,2
Operating Input Voltage Range [V]		(360 nominal)
Full Power MPPT input voltage range (symmetrical load) [V]	210-530 NA	190-530 200-530 (@ 2kW) / 180-530 (@ 1,8kW)
Full asymmetrical load input voltage range [V] Absolute Max. Input Voltage [V]	INA	600 200-330 (@ 2KW) / 100-330 (@ 1,0KW)
Activation voltage "Vstart" [V]	200 nominal (adjustable within the range 120Wdc-350Wdc)	200 nominal (adjustable within the range 120Vdc-350Vdc, independently/each input)
No of independent MPPT trackers	1	2
Max. Input Power, each MPPT [kW]	2,1	2
No. of DC Inputs Max. DC Current, each MPPT [A]	10 (12 shortcircuit)	2 (1 each MPPT) 10 (12 shortcircuit)
max. Do Guiteit, each mi i i [A]	2 (1 positive, 1 negative)	4 (2 positive, 2 negative)
DC Connection		ositive input + female - negative input)
DC CONNECTION	Mating cable connector included Conductor cross section: 4-6mmq/AWG12-10 - Cable Ø w/insulator: 3-6mm	
INPUT PROTECTION		
Reverse polarity protection		Yes
Fuse rating, each input (-FS suffix versions only)	NA	NA
DC side varistors	2, thermally protected	4 (2 for each MPPT), thermally protected
PV array Insulation Control	according to VDE0126-1-1	
DC Switch (-S/-FS suffix versions only) OUTPUT PARAMETERS	NA NA	
Nominal AC Power [up to 40°C, kW]	2	3,6
Max. AC Power [kW]	2	3,6
AC Grid Connection	single phase 230Vac 50Hz + PE	
Nominal AC Voltage [V]	230	
Maximum AC Voltage Range [V] Nominal AC Frequency [Hz]	180-264 50	
Max. AC Line Current [A]	9	16
Circula		ayonet Connector
AC Connection	Conductor Cross Section: Solid / Stranded: 0,5-2,5mmq / AWG 20-14	
Line Power Factor	Outer Cable Ø: 10-12mm	
AC Current Distortion [THD%]	<2,5% at rated power with sine wave voltage	
OUTPUT PROTECTION		
AC side varistors	2, plus gas arrester to ground	
Ground fault protection (AC + DC leakage current) CONVERSION EFFICIENCY	according to VDE0126-1-1	
Max. Efficiency	95.5%	96.0%
Euro Efficiency	94,4%	95,0%
ENVIRONMENTAL PARAMETERS		
Cooling Ambient Temp. Range [°C]	Forced cooling -25 / +55 (output power derating above 40°C)	
Opertaing Altitude [m]	-25 / +33 (output power derailing above 40 °C) 2000	
Acoustical Noise [dBA]	<30 @1mt (<50 @1mt with fan at full speed)	
Environmental IP Rating	IP21	
Relative Humidity	0-90% non condensing	
MECHANICAL Dimensions [H x W x D]	ANN	x 465 x 57
Weight [kg]	6	7,5
OTHER		, ,-
Stand-By Consumption [W]	8	
Feed In Power Threshold [W]	10	
Night Time consumption [W] Isolation	0,3 No isolation, Transformer-less	
Display	YES (Grafico)	
Communication	RS485 (cage-clamp connector - Conductor cross section: 0,08-1,5mmq/AWG28-16); RS232 (DB9)	
	Optional "Aurora Easy Control" remote monitoring system	
AVAILABLE PRODUCT VARIANTS Standard - no options	PVI-2000	PVI-3600
otaliualu * 110 uptiviis	F VI-2UUU	L A1-2000

MODEL SUMMARY		
MODEL NUMBER	POWER	
PVI-2000	2000W	
PVI-3600	3600W	

