



AURORA[®]

Photovoltaic Inverter
& Wind Inverter

**Power solutions
for renewable energy sources
and energy saving**

power-oneTM

worldwide leader for power supplier
and renewable energy products



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General Specifications

Indoor models

PVI-2000

PVI-3600

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
- Certified grid connected operation according international standards



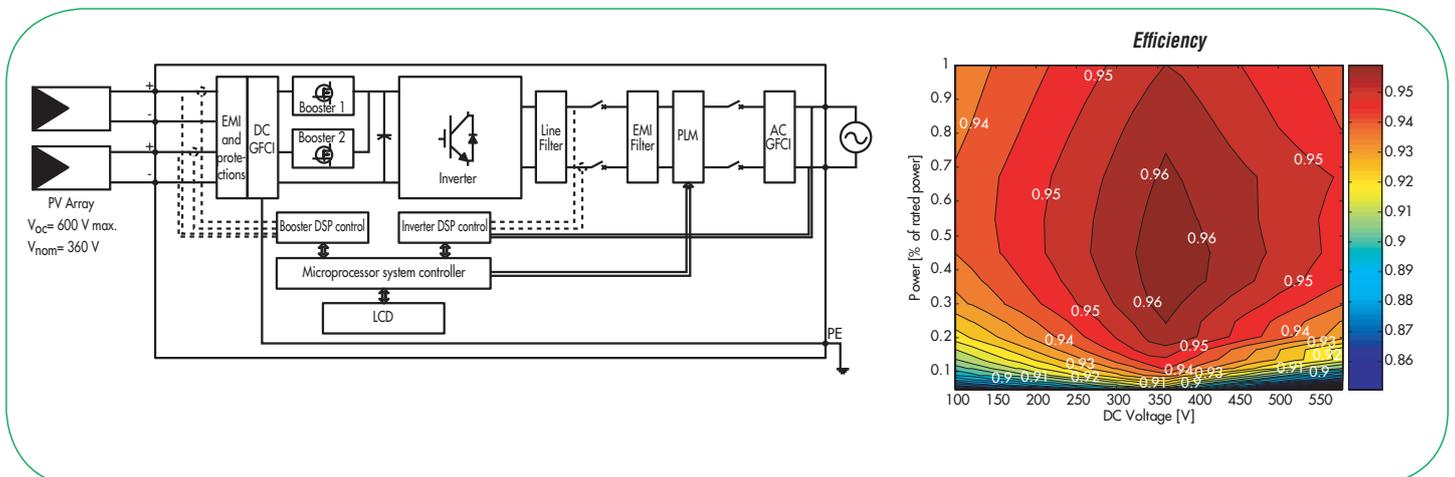
SMART CONTROLS

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: 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



CHARACTERISTICS	PVI-2000	PVI-3600
INPUT PARAMETERS		
Nominal DC Power [kW]	2,1	3,8
Max. Recommended DC Power [kW]	2,3	4,2
Operating Input Voltage Range [V]	90 - 580 (360 nominal)	
Full Power MPPT input voltage range (symmetrical load) [V]	210-530	190-530
Full asymmetrical load input voltage range [V]	NA	200-530 (@ 2kW) / 180-530 (@ 1,8kW)
Absolute Max. Input Voltage [V]	600	
Activation voltage "Vstart" [V]	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	2
No. of DC Inputs	1	2 (1 each MPPT)
Max. DC Current, each MPPT [A]	10 (12 shortcircuit) 2 (1 positive, 1 negative)	10 (12 shortcircuit) 4 (2 positive, 2 negative)
DC Connection	MultiContact Ø 3mm (male - positive input + female - negative input) 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)	NA	
OUTPUT PARAMETERS		
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]	180-264	
Nominal AC Frequency [Hz]	50	
Max. AC Line Current [A]	9	16
AC Connection	Circular Bayonet Connector Conductor Cross Section: Solid / Stranded: 0,5-2,5mmq / 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	
OUTPUT PROTECTION		
AC side varistors	2, plus gas arrester to ground	
Ground fault protection (AC + DC leakage current)	according to VDE0126-1-1	
CONVERSION EFFICIENCY		
Max. Efficiency	96%	
Euro Efficiency	95,00%	
ENVIRONMENTAL PARAMETERS		
Cooling	Forced cooling	
Ambient Temp. Range [°C]	-25 / +55 (output power derating above 40°C)	
Operating Altitude [m]	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]	440 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]	0,3	
Isolation	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
With DC switch	NA	NA
With DC switch and protection fuse/each input	NA	NA

MODEL SUMMARY

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

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



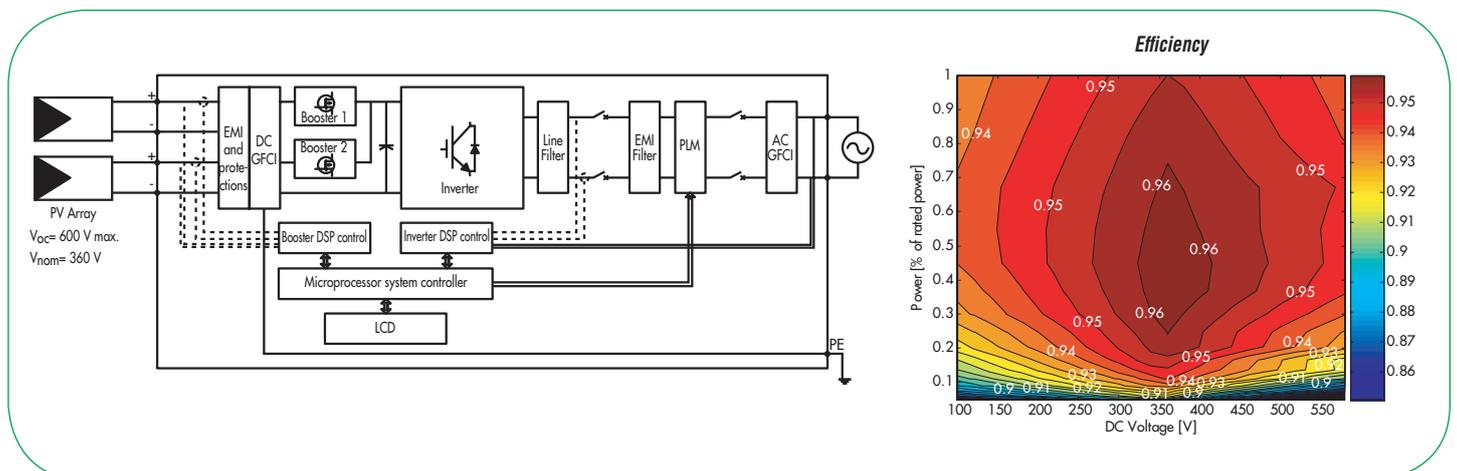
SMART CONTROLS

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



CHARACTERISTICS	PVI-2000-OUTD
INPUT 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]	600
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
No. of DC Inputs	1
Max. DC Current, each MPPT [A]	10 (12 shortcircuit) 1 (1 positive, 1 negative)
DC Connection	MultiContact Ø 3mm (male - positive input + female - negative input) 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
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]	230
Maximum AC Voltage Range [V]	180-264
Nominal AC Frequency [Hz]	50
Max. AC Line Current [A]	9
AC Connection	Circular Bayonet Connector Conductor Cross Section: Solid / Stranded: 0,5-2,5mmq / 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
OUTPUT PROTECTION	
AC side varistors	2, plus gas arrester to ground
Ground fault protection (AC + DC leakage current)	according to VDE0126-1-1
CONVERSION EFFICIENCY	
Max. Efficiency	96%
Euro Efficiency	95,00%
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 @1mt
Environmental IP Rating	IP65
Relative Humidity	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	RS485 (screw terminal block - Conductor cross section: 0,08-1,5mmq/AWG28-16) Optional "Aurora Easy Control" remote monitoring system
AVAILABLE PRODUCT VARIANTS	
Standard - no options	PVI-2000-OUTD
With DC switch	NA
With DC switch and protection fuse/each input	NA

MODEL SUMMARY

MODEL NUMBER	POWER
PVI-2000-OUTD	2000W

General Specifications

Outdoor models

PVI-3.0-OUTD / PVI-3.0-OUTD-S

PVI-3.6-OUTD / PVI-3.6-OUTD-S

PVI-4.2-OUTD / PVI-4.2-OUTD-S

AURORA[®] BENEFITS

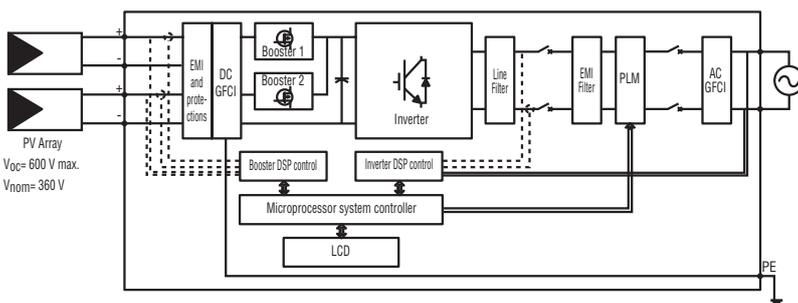
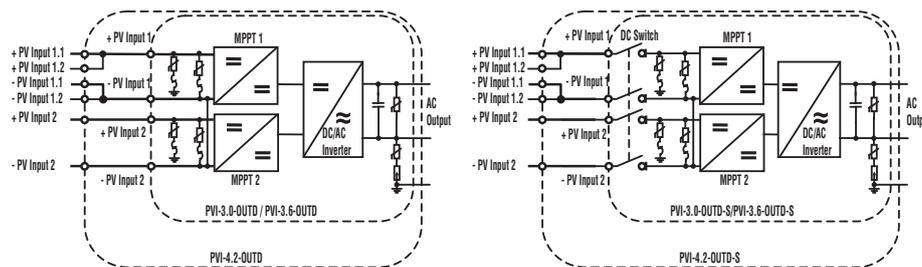
- Dual input section to process two strings with independent MPPT
- High speed MPPT for real time power tracking and improved energy harvesting
- Transformerless operation for highest efficiency: up to 96,8% (Euro 96%)
- Reverse polarity protection minimizes chance of damage due to mis-wiring
- True Sine Wave Output
- Anti-islanding Protection
- LCD Display on the front to monitor the main parameters
- Integrated DC switch in compliance with VDE 0100-712 (Germany) and CEI 64-8 V4 (Italy)
- Standard DC Multi-Contact terminals (model MC4), includes an integrated DC switch (PVI-X.X-OUTD-S)



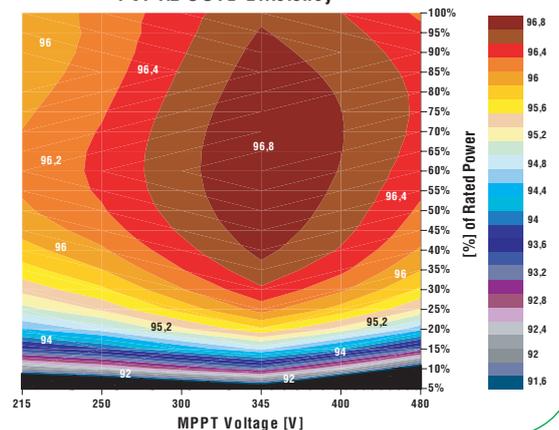
STANDARDS AND CODES

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Block Diagram and typical efficiency



PVI-4.2-OUTD Efficiency



CHARACTERISTICS	PVI-3.0-OUTD	PVI-3.6-OUTD	PVI-4.2-OUTD
INPUT PARAMETERS			
Nominal DC Power [kW]	3,12	3,75	4,38
Max. Recommended DC Power [kW]	3,5	4,15	4,82
Operating Input Voltage Range [V]	0,7xVstart - 580 (360 nominal)		
Full Power MPPT input voltage range (symmetrical load) [V]	156-530	120-530	140-530
Full asymmetrical load input voltage range [V]	200-530 (@ 2kW) / 112-530 (@ 1,12kW)	190-530 (@ 3kW) / 90-530 (@ 0,75kW)	190-530 (@ 3kW) / 90-530 (@ 1,38kW)
Absolute Max. Input Voltage [V]	600		
Activation voltage "Vstart" [V]	200 nominal (adjustable within the range 120Vdc-350Vdc, independently/each input)		
No of independent MPPT trackers	2		
Max. Input Power, each MPPT [kW]	2	3	3
No. of DC Inputs	2 (1 each MPPT)		3 (2 for MPPT1, 1 for MPPT2)
Max. DC Current, each MPPT [A]	10 (12,5 short circuit)	16 (20 short circuit)	
DC Connection	4 (2 positive, 2 negative)		6 (3 positive, 3 negative)
	MultiContact Ø 4mm (male - positive input + female - negative input)		
	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	NA
Thermally Protected DC side varistor	4 (2 for each MPPT)		
PV array Insulation Control	according to VDE0126-1-1		
DC Switch (-S/-FS suffix versions only)	Integrated (Max. Voltage Rating : 600Vdc / Max Current Rating: 25A)		
OUTPUT PARAMETERS			
Nominal AC Power [up to 50°C, kW]	3	3,6	4,2
Max. AC Power [kW]	3,3	3,96	4,6
AC Grid Connection	single phase (Live, Neutral, PE)		
Nominal AC Voltage Range [V]	200-245 (230 nominal)		
Maximum AC Voltage Range [V]	180-264 (may vary to comply with regulations in each country)		
Nominal AC Frequency [Hz]	50		
Max. AC Line Current [A]	14,5 (16 short circuit)	17,2 (19 short circuit)	20 (22 short circuit)
AC Connection	Screw terminal block		
	Conductor cross section: Solid 0,5-16mmq / Stranded: 0,5-10mmq / AWG20-6		
	Cable Gland: M32 - Cable Ø: 13-21mm		
Line Power Factor	1		
AC Current Distortion [THD%]	<3,5% at rated power with sine wave voltage		
OUTPUT PROTECTION			
AC side varistors	2 (Live - Neutral / Live - PE)		
Ground fault protection (AC + DC leakage current)	according to VDE0126-1-1		
CONVERSION EFFICIENCY			
Max. Efficiency	96,80%		
Euro Efficiency	96%		
ENVIRONMENTAL PARAMETERS			
Cooling	Natural cooling		
Ambient Temp. Range [°C]	-25 / + 60 (output power derating above 50°C)		
Operating Altitude [m]	2000		
Acoustical Noise [dBA]	< 50 @ 1mt		
Environmental IP Rating	IP65		
Relative Humidity	0-100% condensing		
MECHANICAL			
Dimensions [H x W x D]	547 x 325 x 208		
Weight [kg]	17		
OTHER			
Stand-By Consumption [W]	8		
Feed In Power Threshold [W]	10		
Night Time consumption [W]	0,3		
Isolation	Transformer-less		
Display	YES (Alphanumeric 2 lines)		
Communication	RS485 (Screw terminal block - Conductor cross section: 0,08-1,5mmq/AWG28-16)		
	USB connection "Aurora Easy-Control" system for remote control (Optional)		
AVAILABLE PRODUCT VARIANTS			
Standard - no options	PVI-3.0-OUTD	PVI-3.6-OUTD	PVI-4.2-OUTD
With DC switch	PVI-3.0-OUTD-S	PVI-3.6-OUTD-S	PVI-4.2-OUTD-S
With DC switch and blocking diode/each input	NA	NA	NA

MODEL SUMMARY

MODEL NUMBER	POWER
PVI-3.0-OUTD/-S	3000W
PVI-3.6-OUTD/-S	3600W
PVI-4.2-OUTD/-S	4200W

General Specifications

Outdoor models

PVI-5000-OUTD / PVI-5000-OUTD-S

PVI-6000-OUTD / PVI-6000-OUTD-S

AURORA® BENEFITS

- Dual input section to process two strings with independent MPPT (6000W max models)
- High speed MPPT for real time power tracking and improved energy harvesting
- 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
- LCD Display on the front to monitor the main parameters
- Standard DC Multi-Contact terminals, screw terminals option available



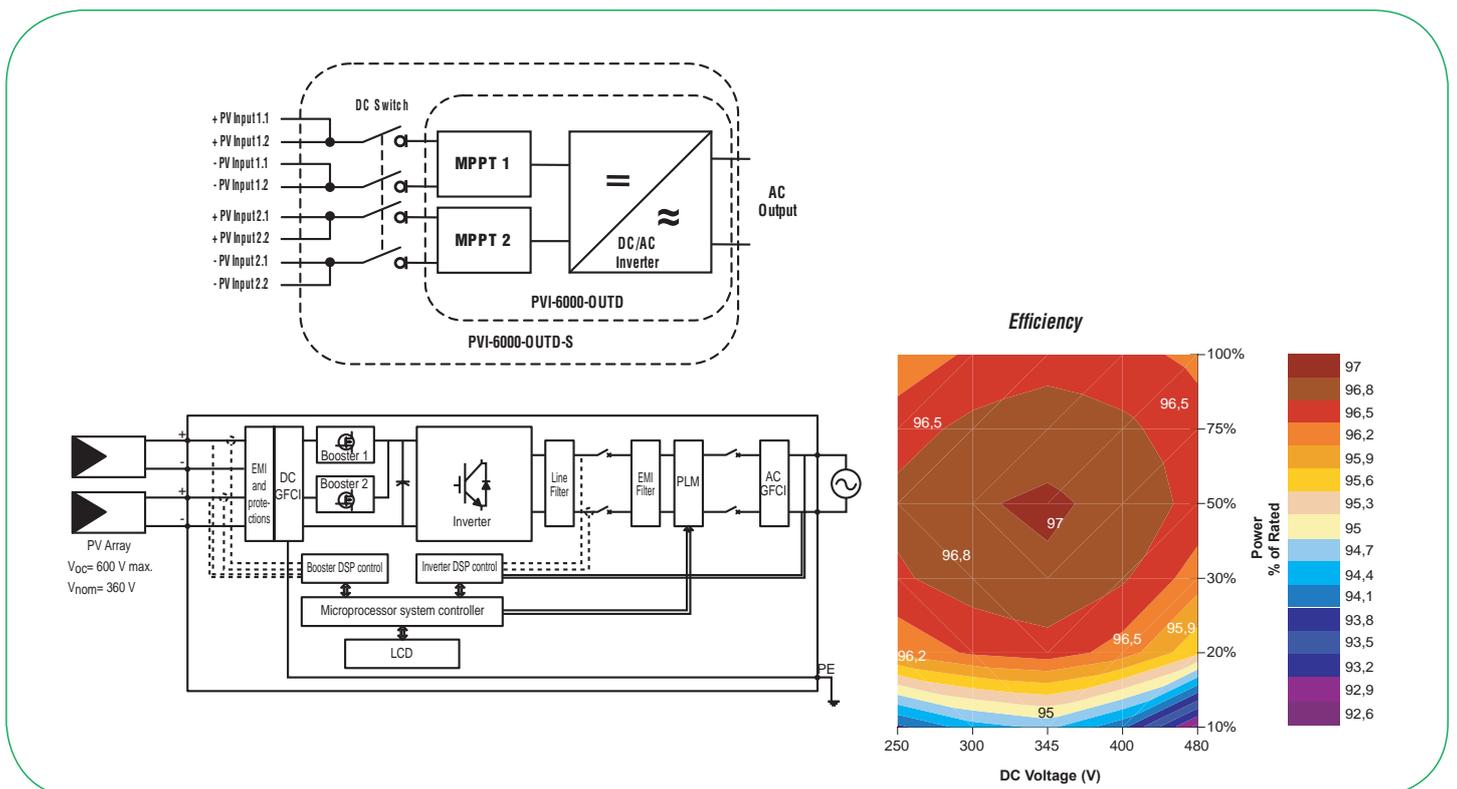
SMART CONTROLS

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

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Block Diagram and typical efficiency



CHARACTERISTICS	PVI-5000-OUTD	PVI-6000-OUTD
INPUT PARAMETERS		
Nominal DC Power [kW]	4,8	6,2
Max. Recommended DC Power [kW]	5,75	6,9
Operating Input Voltage Range [V]	0,7xVstart - 580 (360 nominal)	
Full Power MPPT input voltage range (symmetrical load) [V]	140-530	180-530
Full asymmetrical load input voltage range [V]	220-530 (@ 4kW) / 90-530 (@ 0,8kW)	220-530 (@ 4kW) / 120-530 (@ 2,2kW)
Absolute Max. Input Voltage [V]	600	
Activation voltage "Vstart" [V]	200 nominal (adjustable within the range 120Vdc-350Vdc, independently/each input)	
No of independent MPPT trackers	2	
Max. Input Power, each MPPT [kW]	4	
No. of DC Inputs	4 (2 each MPPT)	
Max. DC Current, each MPPT [A]	18 (22 shortcircuit)	
DC Connection	8 x MultiContact Ø 4mm (4 male - positive input + 4 female - negative input)	
	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	4 (2 for each MPPT), thermally protected	
PV array Insulation Control	according to VDE0126-1-1	
DC Switch (-S/-FS suffix versions only)	Integrated (Rating: 600Vdc / 25Adc)	
OUTPUT PARAMETERS		
Nominal AC Power (up to 50°C, kW)	4,6	6
Max. AC Power [kW]	5	6
AC Grid Connection	single phase 230Vac 50Hz + PE	
Nominal AC Voltage [V]	230	
Maximum AC Voltage Range [V]	180-264	
Nominal AC Frequency [Hz]	50	
Max. AC Line Current [A]	25	30
AC Connection	Cage-clamp terminal block	
	Conductor Cross Section: Solid: 0,5-16mmq / Stranded: 0,5-10mmq / AWG20-6	
	Cable Gland: M32 - Cable Ø: 13-21mm	
Line Power Factor	1	
AC Current Distortion [THD%]	<3,5% 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)	according to VDE0126-1-1	
CONVERSION EFFICIENCY		
Max. Efficiency	97%	
Euro Efficiency	96,40%	
ENVIRONMENTAL PARAMETERS		
Cooling	Natural cooling	
Ambient Temp. Range [°C]	-25 / +60 (output power derating above 50°C)	
Operating Altitude [m]	2000	
Acoustical Noise [dBA]	<50 @1mt	
Environmental IP Rating	IP65	
Relative Humidity	0-100% condensing	
MECHANICAL		
Dimensions [H x W x D]	740 x 325 x 208	
Weight [kg]	26	
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	RS485 (cage-clamp connector - Conductor cross section: 0,08-1,5mmq/AWG28-16); Usb (service only) Optional "Aurora Easy Control" remote monitoring system	
AVAILABLE PRODUCT VARIANTS		
Standard - no options	PVI-5000-OUTD	PVI-6000-OUTD
With DC switch	PVI-5000-OUTD-S	PVI-6000-OUTD-S
With DC switch and protection fuse/each input	NA	NA

MODEL SUMMARY

MODEL NUMBER	POWER
PVI-5000-OUTD	5000W
PVI-5000-OUTD-S	5000W with DC Switch
PVI-6000-OUTD	6000W
PVI-6000-OUTD-S	6000W with DC Switch

General Specifications - Outdoor models PVI-10.0-0 UTD / PVI-10.0-OUTD-S / PVI-10.0-OUTD-FS PVI-12.5-OUTD / PVI-12.5-OUTD-S / PVI-12.5-OUTD-FS

AURORA® BENEFITS

- Dual independent input sections to offer the max configuration flexibility of the installation with 3 strings for each MPPT
- Transformerless operation for highest efficiency: up to 97,7%; Euro: 97,13% (10KW) ; 97,25 (12.5KW)
- True 3ph bridge topology for DC/AC output converter
- Wide MPPT input voltage range: 200-850Vdc
- Flat efficiency curve: to ensure consistent and stable performance across the whole input voltage and output power range
- Efficiency peaks at the middle of the input voltage and output power range to ensure better performance under real operating conditions
- Very fast and accurate dual MPPT algorithm (response time: 1sec; accuracy: 99,8%)
- Very low sensitivity to grid disturbances to avoid undesired disconnection from the grid
- Wide operating temperature range -25°/+60°C. Maximum output power guaranteed for ambient temperatures up to 50°C, free convection cooling (no ventilation)
- PVI-XX.X-OUTD-FS variants include DC switch and fuses (see block diagram)
- LCD Display on the front to monitor the main parameters
- Anti-islanding Protection
- Integrated RS-485
- Standard DC connection with MultiContact MC4 connector
- Reverse polarity protection minimizes chance of damage due to mis-wiring

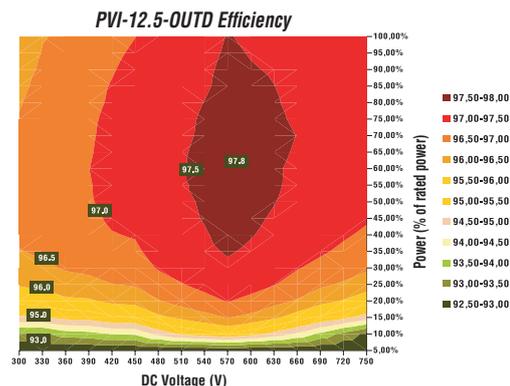
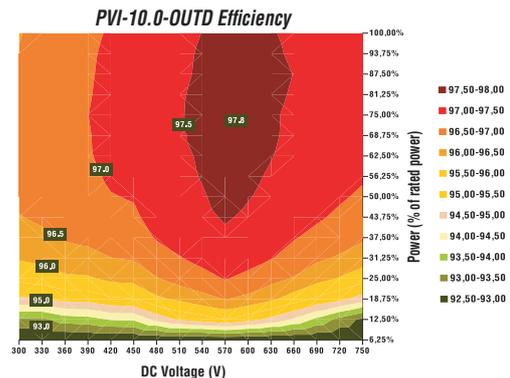
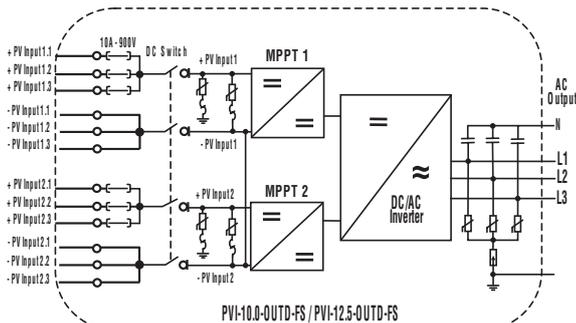
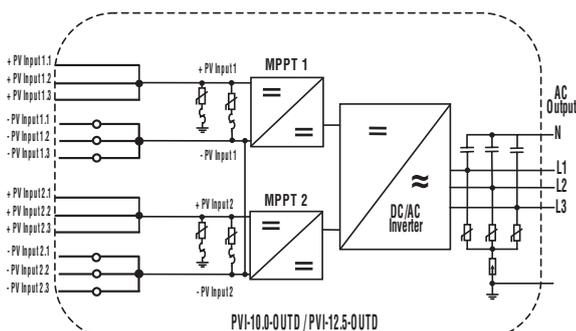


Electrolyte - Free
The string inverter without electrolytic capacitors

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



CHARACTERISTICS	PVI-10.0-OUTD	PVI-12.5-OUTD
INPUT PARAMETERS		
Nominal DC Power [kW]	10,4	13
Max. Recommended DC Power [kW]	11,4	14,3
Operating Input Voltage Range [V]	0,7xVstart - 850 (580 nominal)	
Full Power MPPT input voltage range (symmetrical load) [V]	300-750	360-750
Full asymmetrical load input voltage range [V]	360-750 (@ 6,5kW) / 216-750 (@ 3,9kW)	445-750 (@ 8kW) / 278-750 (@ 5kW)
Absolute Max. Input Voltage [V]	900	
Activation voltage "Vstart" [V]	360 nominal (adjustable within the range 250Vdc-500Vdc, independently/each input)	
No of independent MPPT trackers	2	
Max. Input Power, each MPPT [kW]	6,5	8
No. of DC Inputs	6 (3 each MPPT, optionally fused)	
Max. DC Current, each MPPT [A]	18 (22 shortcircuit)	
DC Connection	12 x MultiContact Ø 4mm (6 male - positive input + 6 female - negative input)	
	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)	10Adc / 900Vdc	
DC side varistors	4 (2 for each MPPT), thermally protected	
PV array Insulation Control	according to VDE0126-1-1	
DC Switch (-S/-FS suffix versions only)	Integrated (Rating: 1000Vdc / 25Adc)	
OUTPUT PARAMETERS		
Nominal AC Power (up to 50°C, kW)	10	12,5
Max. AC Power [kW]	11	13,8
AC Grid Connection	3 phase 400Vac 50Hz with or without neutral (3 or 4 wires network) + PE	
Nominal AC Voltage [V]	3x400Vac	
Maximum AC Voltage Range [V]	311-456Vac (may be limited in acc. to country-specific requirements)	
Nominal AC Frequency [Hz]	50	
Max. AC Line Current [A]	16,6A per phase (19A short circuit)	20A per phase (22A short circuit)
AC Connection	Screw terminal block	
	Conductor Cross Section: Solid: 0,5-16mmq / Stranded: 0,5-10mmq / AWG20-6	
	Cable Gland: M40 - Cable Ø: 19-28mm	
Line Power Factor	1	
AC Current Distortion [THD%]	<2% at rated power with sine wave voltage	
OUTPUT PROTECTION		
AC side varistors	3, star connected to common point, plus gas arrester to ground	
Ground fault protection (AC + DC leakage current)	according to VDE0126-1-1	
CONVERSION EFFICIENCY		
Max. Efficiency	97,70%	
Euro Efficiency	97,13%	97,25%
ENVIRONMENTAL PARAMETERS		
Cooling	Natural cooling	
Ambient Temp. Range [°C]	-20 / +60 (output power derating above 50°C)	
Operating Altitude [m]	2000	
Acoustical Noise [dBA]	<50 @1mt	
Environmental IP Rating	IP65	
Relative Humidity	0-100% condensing	
MECHANICAL		
Dimensions [H x W x D]	650 x 650 x 200	
Weight [kg]	38	
OTHER		
Stand-By Consumption [W]	10	
Feed In Power Threshold [W]	30W	
Night Time consumption [W]	<2	
Isolation	No isolation, Transformer-less	
Display	YES (Alphanumeric 2 lines)	
Communication	RS485 (Screw terminal block - Conductor cross section: 0,08-1,5mmq/AWG28-16)	
AVAILABLE PRODUCT VARIANTS		
Standard - no options	PVI-10.0-OUTD	PVI-12.5-OUTD
With DC switch	PVI-10.0-OUTD-S	PVI-12.5-OUTD-S
With DC switch and protection fuse/each input	PVI-10.0-OUTD-FS	PVI-12.5-OUTD-FS

MODEL SUMMARY

MODEL NUMBER	POWER
PVI-10.0-OUTD/-S/-FS	10.000W
PVI-12.5-OUTD/-S/-FS	12.500W

General Specification Aurora Easy Control PVI-AEC-PRO PVI-AEC-BASIC PVI-AEC-LIGHT

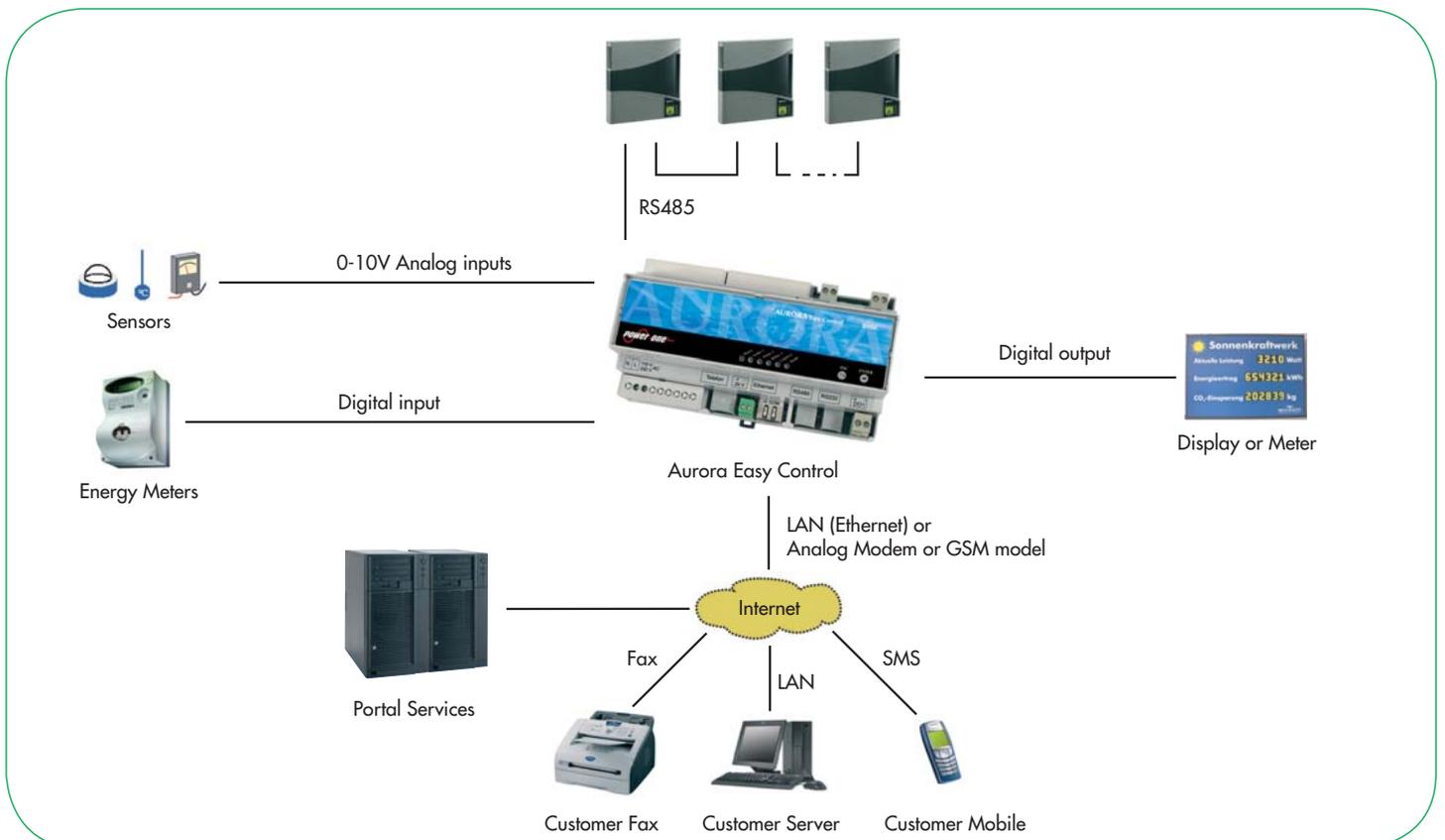
AURORA EASY CONTROL BENEFITS

- Remote monitoring of PV plants through Ethernet, analogue Modem, ISDN,DSL or GSM
- Performance/operational data available: energy yield, power, array voltages, array currents, AC parameters, temperatures, for each inverter.
- Up to 4 analogue input channels to connect ambient sensors (irradiance, temperature, wind, etc.)
- Up to 4 digital input channels to connect power meters' digital output
- Pulse output to connect external LED display
- Active alarm management with automatic delivery of SMS, e-mail or fax alarm message in case of malfunction
- Configurable digital output to drive impulse energy meters or large displays
- Power One offers also the exclusive advantages of a web portal service (optional) to enhance the monitoring functions through internet*
- The advantages of Aurora web portal includes:
 - Easy connection also in case Aurora Easy Control is linked to local networks protected by firewalls
 - Access from any computer connected to Internet
 - Performance and alarm reports editing in various formats (CSV, HTML, PDF)

* Internet web portal service available only for DSL and GSM version



Block Diagram



CHARACTERISTICS	PVI-AEC-PRO	PVI-AEC-BASIC	PVI-AEC-LIGHT
GENERAL			
Operating temperature range:	0°C...+55°C		
Non operating (storage) temperature range:	-20°C...+65°C		
Environmental protection class:	IP 20		
Mounting system:	DIN top hat rail		
Dimensions:	160(Width) x 90(Height) x 73(Length) mm - (9 modules)		
Weight:	360g		
FUNCTIONS			
Memory:	32MB CF Memory Card		
Display:	2 rows, with backlight	-	-
Inputs:	4 x analog / 4 x digital	1 x analog / 1 x digital	1 x analog / 1 x digital
DC supply output 24Vdc:	To power external sensors or signal converters (230mA max.)		
Digital output:	Configurable output: "impulse" for large display or "status" for alarm activation		
Connection interface 1:	Dial-up modem, ISDN, DSL, or GSM	Dial-up modem, ISDN, DSL	Dial-up modem
Connection interface 2:	Ethernet		
Interface to inverters:	RS-485 serial link		
Limitations:	max. 31 inverters	max. 31 inverters	up to 5 inverters, 20kWp max.
ELECTRICAL			
Analog inputs (configurable):	0...10Vdc max. overload: 12Vdc 0...20mA max. overload: 40mA / 3Vdc Temperature input PT-1000		
Digital inputs:	Status input: Low < 1,5Vdc High > 2,5Vdc (max. overload 7Vdc) Impulse (meter) input: Low = 0Vdc to 7Vdc High = 9Vdc to 24Vdc (max. overload!) (24Vdc supply available from the unit!)		
Digital output (configurable):	Opto-isolated, max. overload: 70Vdc / 50mA (check polarity!)		
Supply input:	230Vac (85Vac...260Vac), 50/60Hz		
Consumption:	< 7.5W (during measurement or sensor activation)		
Battery for integrated clock:	Lithium type Li2032		
ACCURACY			
Voltage:	0,5% full scale		
Current:	1% full scale		

ACCESSORIES	Description
PVI-AEC-BOX	IP30 for Aurora Easy Control
PVI-AEC-EXP-AI4-DI4	Input expansion module: 4 x analog / 4 x digital
Irradiance sensors	
PVI-AEC-IRR	Irradiance sensor 0-10V
PVI-AEC-IRR-T	Combined irradiance & module temp. sensor 0-10V
Module temperature sensors (backside cell temperature) and signal converters	
PVI-AEC-T100-ADH	PT-100 self-adhesive sensor
PVI-AEC-CONV-T100-24V	PT 100 signal converter (24V supply)
PVI-AEC-CONV-T1000-24V	PT-1000 signal converter (24V supply)
Cased temperature sensors (ambient temperature)	
PVI-AEC-T1000-INTEGR	PT-1000 sensor in case, with integrated converter
Wind sensors	
PVI-AEC-WIND	Wind speed sensor (anemometer)

Data-Logger Models	Connection interface 1 (modem)				Connection interface 2
	Analog	ISDN	DSL	GSM	Ethernet
PVI-AEC-LIGHT-Analog	X	-	-	-	X
PVI-AEC-LIGHT-Ethernet	-	-	-	-	X
PVI-AEC-BASIC-Analog	X	-	-	-	X
PVI-AEC-BASIC-DSL	-	-	X	-	X
PVI-AEC-PRO-Analog	X	-	-	-	X
PVI-AEC-PRO-DSL	-	-	X	-	X
PVI-AEC-PRO-GSM	-	-	-	X	X



General Specifications Control and monitoring solutions

PVI-DESKTOP

Simple, powerful, effective and upgradable

The Aurora® PVI-DESKTOP is the ideal monitoring solution for residential and small commercial photovoltaic applications. Wireless installation, radio communication with the monitored devices and touch screen colour TFT display make the PVI-DESKTOP an appealing solution to customers who want to have production data and devices status available at a glance without use of either computer or internet connection. The software is easily upgradable by free downloading from the web.

Features

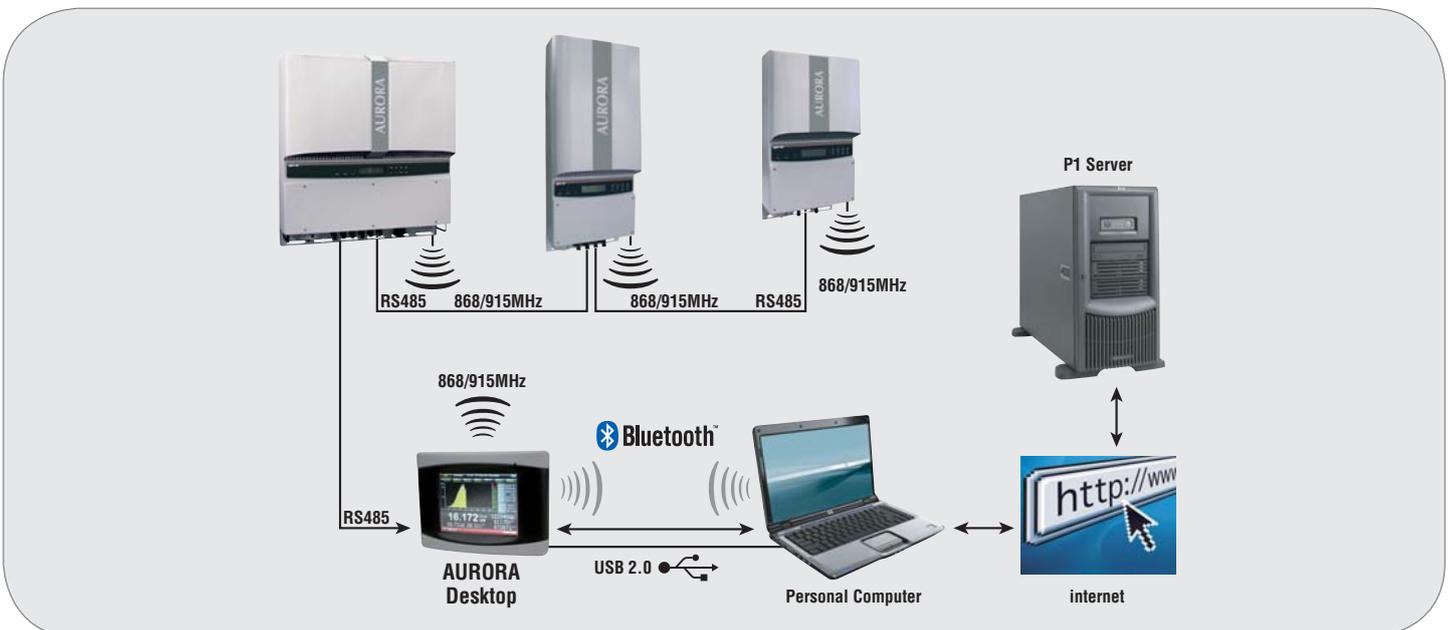
- Elegant design.
- 120x90x35 mm (W x H x D).
- Portable display module with Rechargeable Lithium-Ion battery.
- 3"1/2 touch screen TFT Colour RGB.
- USB 2.0 port and Bluetooth for PC data download and software upgrading.
- Extended memory on SD card.
- Radio transmission 868MHz (Europe) or 915MHz (North America).
- Up to 300 meters (1000 ft) operating range from inverters.
- Communicate with up to 6 AURORA devices.
- RS485 port for optional wired communication with inverters
- Mono audio speaker



Flexibility

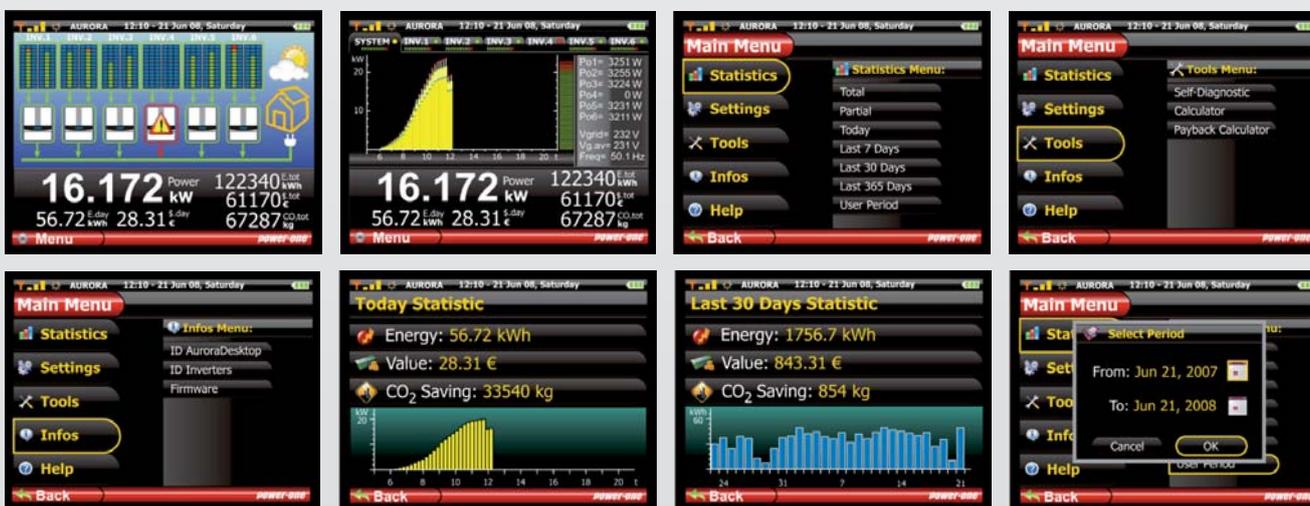
- Triple power supply (DC, USB, integrated Lithium battery)
- Table top or wall mounting.
- Back up time: Up to 3 weeks with fully charged battery.
- Battery recharge through either AC adapter or USB Hi-Power port.
- Very large data storage capability (through standard SD Card)
- Free firmware upgrading www.power-one.com
- Complete, easy and friendly data collection and representation

Desktop HighLights



CHARACTERISTICS	AURORA DESKTOP
INVERTER COMMUNICATION	
Carrier frequency [MHz]	868MHz - EU / 915MHz - US (user selectable)
Coverage	up to 300mt free space
Wired communication	RS485 port (half duplex 19200bps, 1km)
Inverter compatibility	All AURORA string series (with optional radio transmitter)
Maximum number of inverters	6
PC COMMUNICATION	
Wireless	Bluetooth
Wired communication	Usb 2.0
DISPLAY	
Dimensions [inches]	color 3.5"
Resolution [pixels]	QVGA (320 x 240)
Integrated touch screen	YES, resistive
POWER SUPPLY	
DC	5V/1A
Usb	Yes
Stand alone	Rechargeable Li-Ion battery
STANDARD EQUIPMENT	
Stylus pen	YES
AC Adapter	YES (EU or US version)
Usb cable	YES (1mt)
SD Card	YES (1Gb)
FEATURES	
Data acquisition and display - Inverter	All inverter parameters, data and alarms
Data collection and storage	Internal (SD Card) / Extrenal via AURORA Communicator software
Software Upgrade	Free download from www.power-one.com
Languages	IT / EN / ES / DE / FR
Personalized graphical skin	Free download from www.power-one.com
ENVIRONMENTAL PARAMETERS	
Ambient Temp. Range [°C]	0°C +40°C
Environmental IP Rating	IP20
Relative Humidity	0-90% non condensing
MECHANICAL	
Dimensions [H x W x D]	90 x 125 x 35
Weight [kg]	0,4

Operating Configurations



General Specification PVI-STRINGCOMB PVI-STRINGCOMB-S

AURORA® BENEFITS

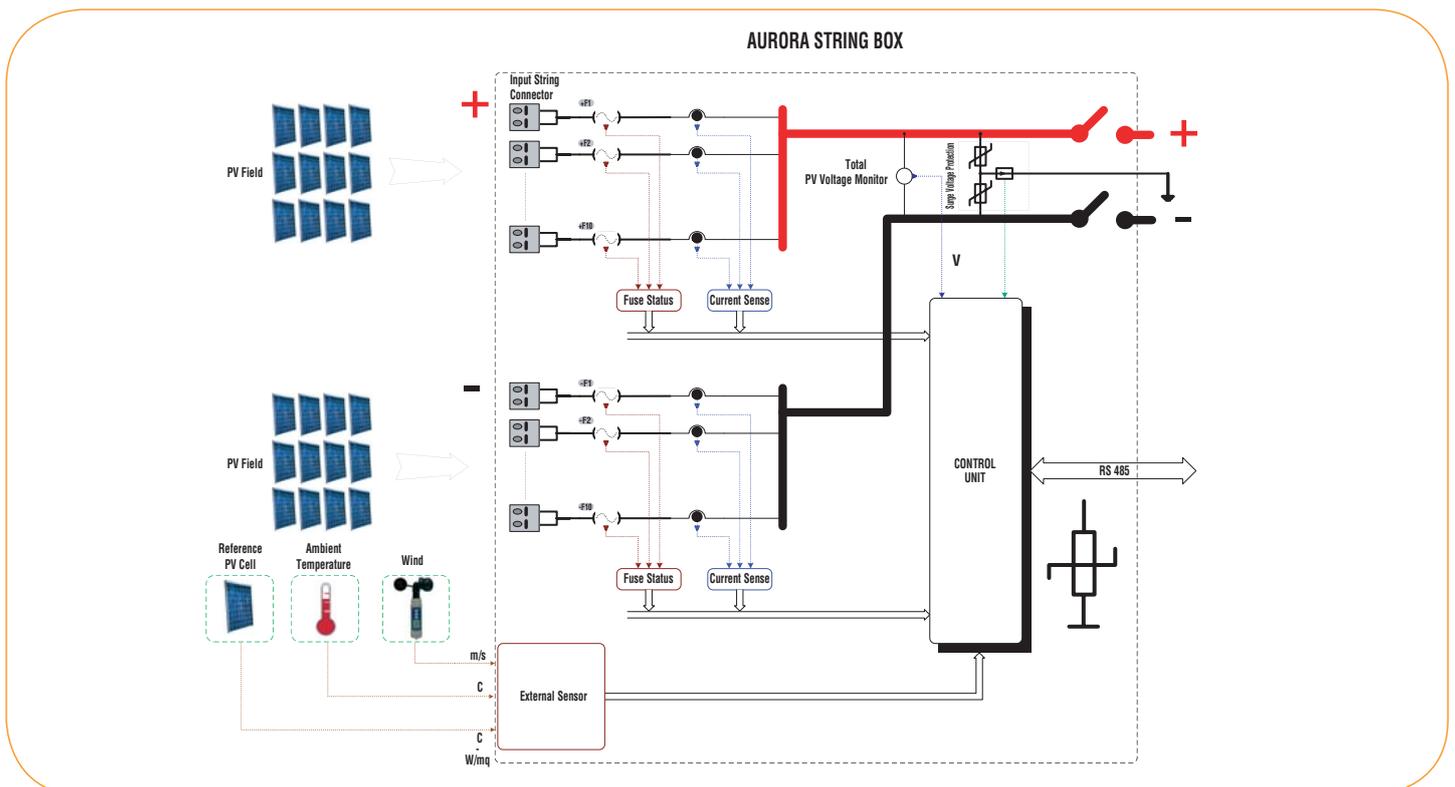
- The string combiner box for the protection and monitoring of the array in centralized PV systems
- 20 input channels rated 10A (or 10 inputs rated 20A each) with integrated string current measurement (hall effect sensors) are available for an accurate monitoring and early fault detection of each string
- Fuse status monitoring ensures prompt fault detection and alarm
- Up to 20 strings can be connected and paralleled on the same box, with protection fuse mounted on removeable DIN rail fuse holders on both the positive and negative pole (2 parallel strings for each fuse)
- String cable connection via Multi-Contact or cable glands and terminal blocks
- Overvoltage protection with replaceable varistor cartridge on both DC power and signal lines
- Available with integrated output DC switch (STRINGCOMB-S version) on optionally with remote disconnect
- IP65 plastic enclosure for outdoor installation
- Integrated RS-485 serial port for remote communication with the inverter
- 3+1 optional analog inputs for connection to external sensors (irradiance, temperature, wind speed, etc...)
- 1+1 digital inputs
- internal auxiliary power supply
- optional electronic antitheft
- auxiliary input for external battery back-up voltage



HIGH PERFORMANCE REDEFINED

The string combiner box PVI-STRINGCOMB is an ideal complement to the Aurora PVI-CENTRAL family of inverters that ensures the same control and monitoring accuracy of the PV generator typically achieved with string inverters. The individual string currents are accurately measured with hall effect sensors and any mismatch is promptly detected by the system supervisor to allow for quick identification of any fault of the solar panels. All string combiner boxes include surge protection with removable elements as well as fuse protection for each couple of string channel.

Block Diagram



CHARACTERISTICS	PVI-STRINGCOMB	PVI-STRINGCOMB-S
INPUT		
Input Voltage Range [Vdc]	250 - 850	250 - 850
Absolute maximum input voltage [Vdc]	1000	1000
Measurement channels	10	10
Max. Idc current for each channel [A]	20	20
Max. combined input current [A]	160	125
DC fuses	10+10	10+10
Number of strings per fuse	2	2
String cable cross section [mm ²]	up to 6	up to 6
Maximum number of strings (parallel)	20 (2 on each fuse)	20 (2 on each fuse)
DC overvoltage protection	Yes (with replaceable cartridge)	Yes (with replaceable cartridge)
OUTPUT		
Max. output current rating [A]	160	125
Output DC cable connection	M10 (max 120mmq)	M10 (max 120mmq)
Grounding connection cable	M8 (max 35 mmq)	M8 (max 35 mmq)
Output DC switch rating	-	125A/1000V
MECHANICAL AND ENVIRONMENTAL DATA		
Size (height x width x depth) [mm]	559 x 757 x 250	559 x 757 x 250
Weight [kg]	23	25
Protection degree	IP65	IP65
Operating ambient temperature range [°C]	-25 to +55	-25 to +55
Relative humidity (*)	0 to 95%	0 to 95%
COMMUNICATION	via RS485	via RS485
AVAILABLE DATA	Corrente i stringa, stato dei fusibili di stringa, temperature interna, lettura da sensori esterni, stato della protezione di overvoltage	

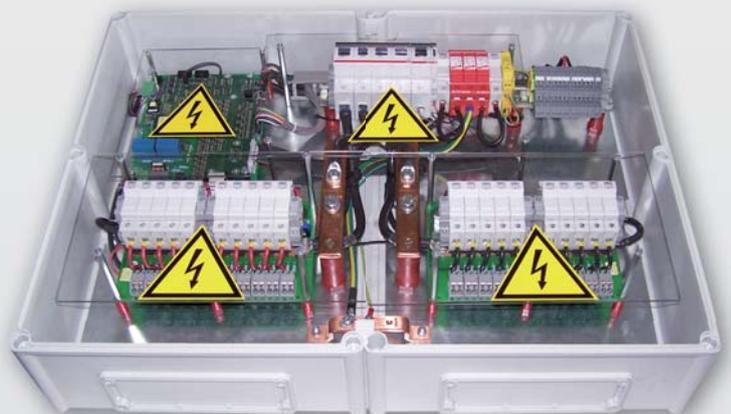
(*) pressure equalizing valve to avoid condensing

MODEL SUMMARY

MODEL NUMBER	CONFIGURATION
PVI-STRINGCOMB	20x10A (or 10x20A) string combiner with current measurement and string protection fuses
PVI-STRINGCOMB-MC	20x10A (or 10x20A) string combiner with current measurement and string protection fuses with MULTICONTACT MC4
PVI-STRINGCOMB-S	20x10A (or 10x20A) string combiner with current measurement, string protection fuses and DC output switch
PVI-STRINGCOMB-S-MC	20x10A (or 10x20A) string combiner with current measurement, string protection fuses and DC output switch with MULTICONTACT MC4

STANDARDS AND CODES

Aurora inverters comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: UL 1741, VDE0126, CEI 11-20, DK5940, CEI 64-8, IEC 61683, IEC 61727, EN50081, EN50082, EN61000, CE certification.



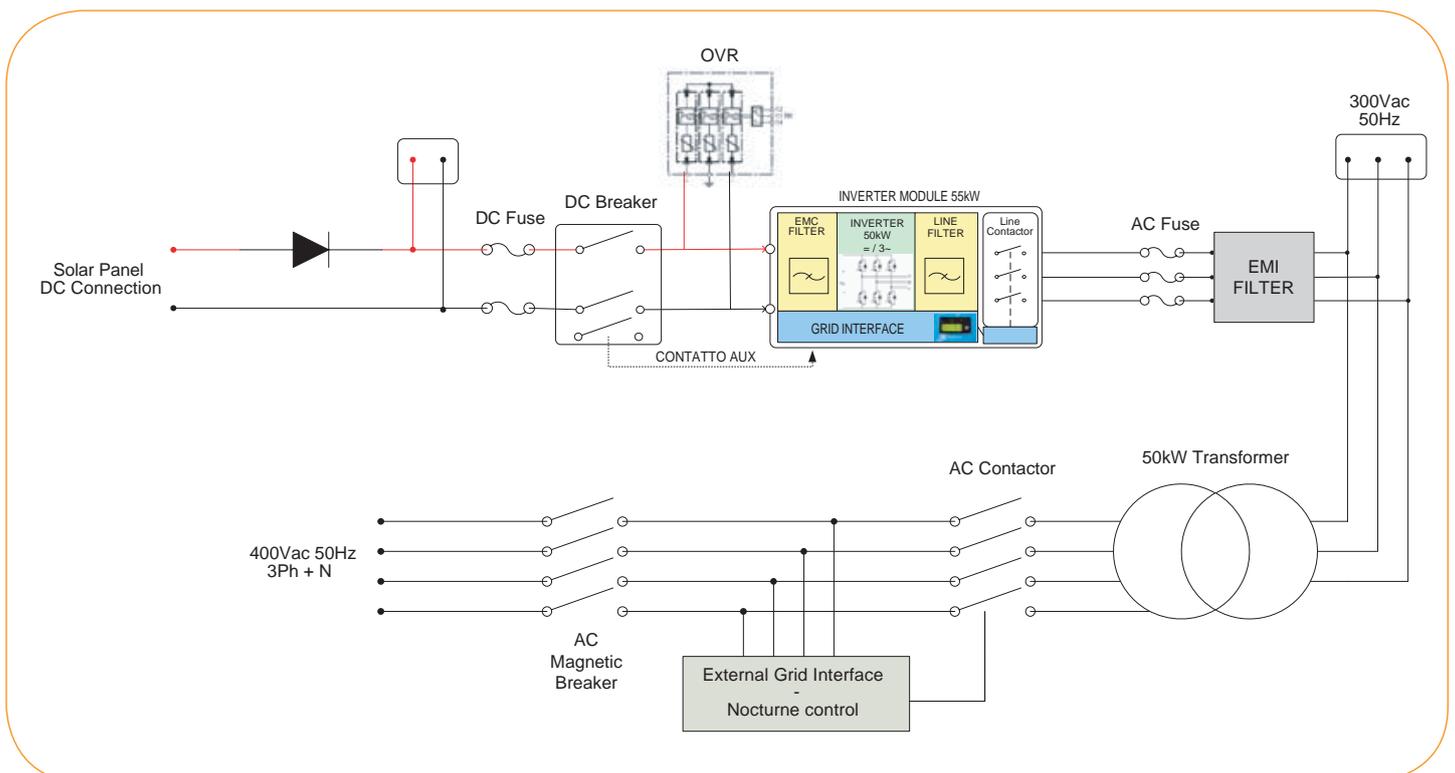
General Specification Centralized Model PVI-CENTRAL-50

AURORA® BENEFITS

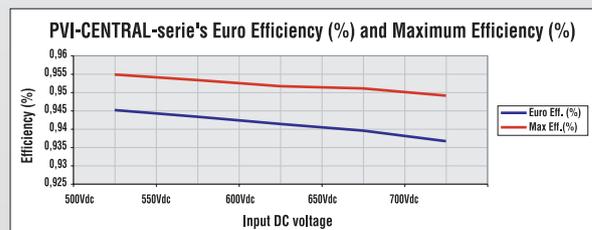
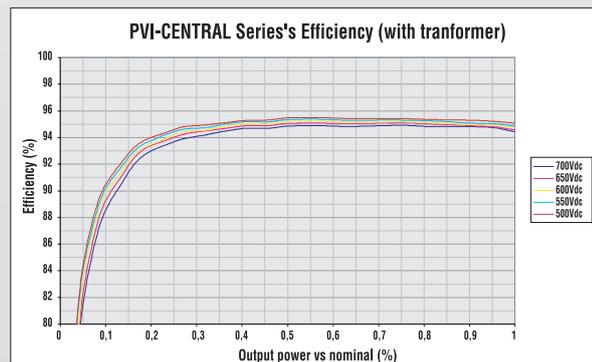
- Modular architecture with independent pluggable converter
- Easy maintenance system with the possibility to quickly plug and unplug the converter module
- Low acoustic noise thanks to the high switching frequency
- High conversion efficiency (Euro efficiency 94,51%)
- Complete turnkey solution for the connection to the Low Voltage public network in accordance to DK5940 and CEI 11-20 (Italy), VDE 0126/VDEW (Germany, France, Greece) and Real Decreto RD1663/2000 (Spain)
- Integrated connections, protections and disconnection from DC and AC
- Predisposition for connection without external equipment
- Night-time disconnection of the transformer through integrated light sensors to eliminate undesired losses
- WEBLOGGER monitoring system (optional) for the remote surveillance and performance evaluation of the PV plant
- A string combiner box is optionally available to parallel, protect and monitor all the PV strings and enhance the monitoring and diagnostic capabilities of the system



Block Diagram - 55kW



CHARACTERISTICS	PVI-CENTRAL-50
INPUT PARAMETERS	
Maximum recommended PV power (kWp)	-
Total (master slave mode)	59
Per channel (multi-master mode)	
Absolute maximum input voltage (Vdc)	900
MPPT input voltage range (Vdc)	465 - 850 (550 nominal)
Number of independent MPPT	
multi-master configuration	1
multi-master/slave configuration	na
master/slave	1
Total Maximum input current (A dc)	123
Multi-master mode (each module)	123
Input Reflected Ripple voltage	<3%
Number of DC inputs available	1
Max. DC input wire section (each polarity)	1x120mmq (M10)
STANDARD EQUIPMENT - INPUT	
Insulation Control	Yes, with alarm
Integrated DC protection	
Reverse polarity and backfeed current protection (each input)	YES, with series diode
Input fuse overcurrent protection (each input/both polarities)	125A/1000V
Load-breaking DC switch (each input, monitored)	125A/1000V
Input overvoltage protection (monitored)	1
OUTPUT PARAMETERS	
Nominal AC Output Power, PACnom (up to 50°C, kW)	55
Nominal AC Output Current (Arms)	81
AC Output Voltage range (Vrms)	3 x 400 +/-15%
Nominal AC Frequency (Hz)	50 / 60
Power Factor (cos φ)	>0.99 (@ Pac nominal)
AC Current Harmonics (THD%)	< 4% (@ Pac nominal)
Inverter Switching Frequency (kHz)	18
Max AC output wire section (each phase)	1x70mmq (M8)
STANDARD EQUIPMENT - OUTPUT	
AC Contactor (night time disconnect)	Yes
*AC Output Circuit Breaker (Magnetothermic switch)	Yes
AC side overvoltage protection (power and aux input)	Yes
CONVERSION EFFICIENCY	
Peak Efficiency % (@ Vin nom)	95.50%
Euro Efficiency % (@ Vin nom)	94.50%
ENVIRONMENTAL PARAMETERS	
Environmental Protection Degree	IP20
Operating Temperature Range	-10°C...+50°C
Required ambient air cooling flow	1500m3/h
Relative Humidity (non-condensing)	< 95%
Audible Noise (dBA @ 1m)	<62
AUXILIARY SUPPLY	
External Auxiliary Supply Voltage	3x400Vac + N, 50/60Hz
Maximum consumption in operation	<0.2% of PACnom
Night time losses (W)	<15W
COMMUNICATION/USER INTERFACE	
Communication Port (PC / Datalogger)	1 x RS485 (RS485_USR)
Communication - String Combiner boxes (PVI-STRINGCOMB)	1 x RS485 (RS485_2)
Remote Communication (optional)	WEBLOGGER (Ethernet, GPRS)
User Interface	2-lines Display (on each inverter module)
MECHANICAL CHARACTERISTICS	
Dimensions (WxHxD) (mm)	1250 x 1570(*) x 810
(*) Output Air conduit not included	
Overall Weight (kg)	800
50kW module Weight (kg)	65
APPROVALS	
EMC	*EN 61000-6-2, EN 61000-6-4 ; EN 61000-3-11; EN 61000-3-12
CE Compliance	Yes
Grid connection	DK5940 Ed. 2.2, VDEW, RD1663/2000



MODEL SUMMARY

MODEL NUMBER

PVI-CENTRAL-50

CONFIGURATION

with transformer

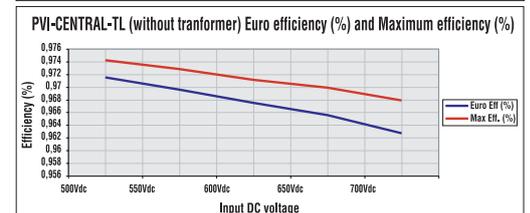
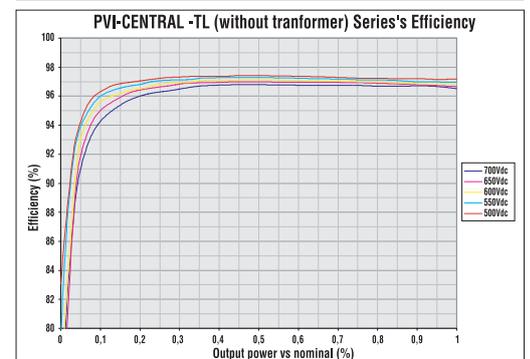
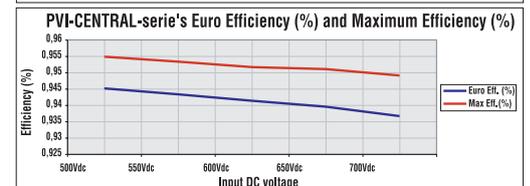
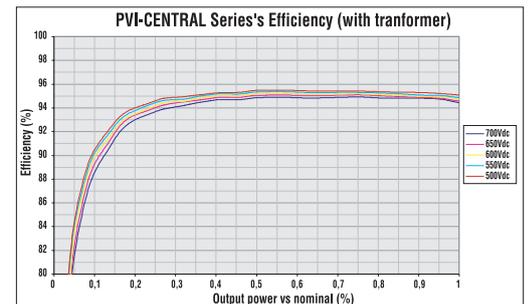
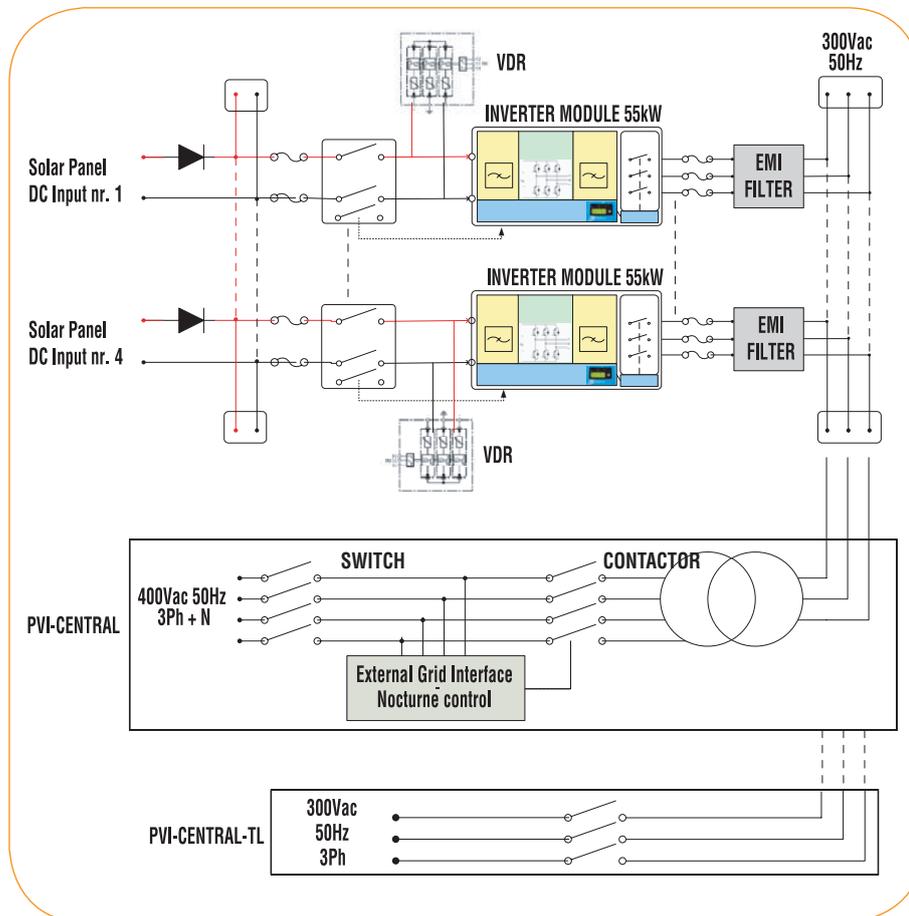
General Specification Centralized Model PVI-CENTRAL-100 PVI-CENTRAL-100-TL

AURORA® BENEFITS

- Flexible system architecture with 2 functionally independent 55kW modules, configurable in "Master-Slave" mode (modules in parallel) or "Multi-Master" mode (independent modules).
- Reduced acoustic noise thanks to the high switching frequency (18kHz).
- Can be installed within residential areas without need of acoustic noise reduction
- High conversion efficiency
- Easy maintenance system, thanks to the possibility of quick plug & unplug of the inverter modules.
- Integrated connections, protections and disconnection from DC and AC
- Predisposition for connection without external equipment
- Reduced sensitivity to a single fault: in case of a component fault the system keeps operating with 55kW derating
- Also available without LV transformer for direct connection to the medium voltage network (with dedicated MT transformer)



Block Diagram - 110Kw-220Kw



CHARACTERISTICS	PVI-CENTRAL-100	PVI-CENTRAL-100-TL
INPUT PARAMETERS		
Maximum recommended PV power [kWp]	-	
Total (master slave mode)	118	118
Per channel (multi-master mode)	59	59
Absolute maximum input voltage [Vdc]	900	900
MPPT input voltage range [Vdc]	465 - 850 (550 nominal)	465 - 850 (550 nominal)
Number of independent MPPT		
multi-master configuration	2	2
multi-master/slave configuration	na	na
master/slave	1	1
Total Maximum input current [A _{dc}]	246	246
Multi-master mode (each module)	123	123
Input Reflected Ripple voltage	< 3%	< 3%
Number of DC inputs available	2	2
Max. DC input wire section (each polarity)	2x120mmq (M10)	2x120mmq (M10)
STANDARD EQUIPMENT - INPUT		
Insulation Control	Yes, with alarm	Yes, with alarm
Integrated DC protection		
Reverse polarity and backfeed current protection (each input)	YES, with series diode	YES, with series diode
Input fuse overcurrent protection (each input/both polarities)	125A/1000V	125A/1000V
Load-breaking DC switch (each input, monitored)	125A/1000V	125A/1000V
Input overvoltage protection (monitored)	1	2 (1 for each input)
OUTPUT PARAMETERS		
Nominal AC Output Power, PAC _{nom} [up to 50°C, kW]	110	110
Nominal AC Output Current [Arms]	162	216
AC Output Voltage range [V _{rms}]	3 x 400 +/-15%	3 x 300 +/-20%
Nominal AC Frequency [Hz]	50 / 60	50 / 60
Power Factor [cos φ]	>0.99 (@ Pac nominal)	>0.99 (@ Pac nominal)
AC Current Harmonics [THD%]	< 4% (@ Pac nominal)	< 4% (@ Pac nominal)
Inverter Switching Frequency [kHz]	18	18
Max AC output wire section (each phase)	1x90mmq (M8)	1x240mmq (M12)
STANDARD EQUIPMENT - OUTPUT		
AC Contactor (night time disconnect)	Yes	No
*AC Output Circuit Breaker (Magnetothermic switch)	Yes	Yes
AC side overvoltage protection (power and aux input)	Yes	Yes
CONVERSION EFFICIENCY		
Peak Efficiency % @ Vin nom)	95,50%	97,50%
Euro Efficiency % @ Vin nom)	94,50%	96,90%
ENVIRONMENTAL PARAMETERS		
Environmental Protection Degree	IP20	IP20
Operating Temperature Range	-10°C...+50°C	-10°C...+50°C
Required ambient air cooling flow	2000m ³ /h	2000m ³ /h
Relative Humidity (non-condensing)	< 95%	< 95%
Audible Noise [dBA @ 1mt]	<65	<63
AUXILIARY SUPPLY		
External Auxiliary Supply Voltage	3x400Vac + N, 50/60Hz	3x400Vac + N, 50/60Hz
Maximum consumption in operation	<0.2% of PAC _{nom}	<0.15% of PAC _{nom}
Night time losses [W]	<30W	<30W
COMMUNICATION/USER INTERFACE		
Communication Port (PC / Datalogger)	1 x RS485 (RS485_USR)	1 x RS485 (RS485_USR)
Communication - String Combiner boxes (PVI-STRINGCOMB)	1 x RS485 (RS485_2)	1 x RS485 (RS485_2)
Remote Communication (optional)	WEBLOGGER (Ethernet, GPRS)	WEBLOGGER (Ethernet, GPRS)
User Interface	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)
MECHANICAL CHARACTERISTICS		
Dimensions (WxHxD) [mm]	1250x1570(*)x810	1250 x 1030(*) x 810
(*) Output Air conduit not included		
Overall Weight [kg]	900	480
50kW module Weight [kg]	65	65
APPROVALS		
EMC	*EN 61000-6-2, EN 61000-6-4 ; EN 61000-3-11; EN 61000-3-12	
CE Compliance	Yes	
Grid connection	DK5940 Ed. 2.2, VDEW, RD1663/2000	

MODEL SUMMARY

MODEL NUMBER	CONFIGURATION
PVI-CENTRAL-100	with transformer
PVI-CENTRAL-100-TL	without transformer

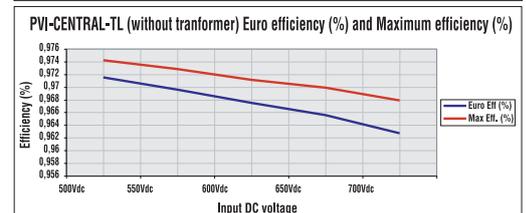
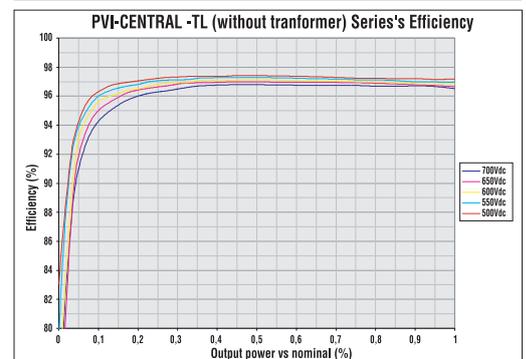
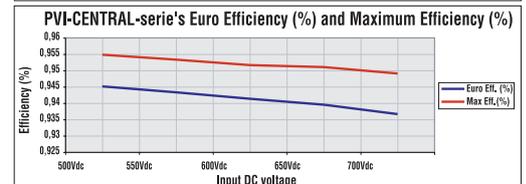
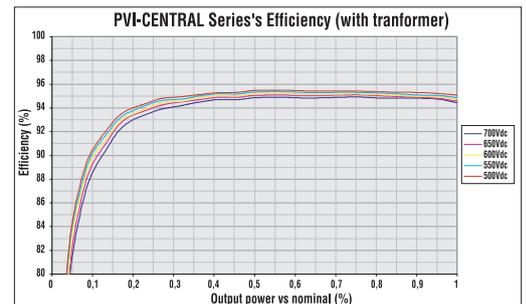
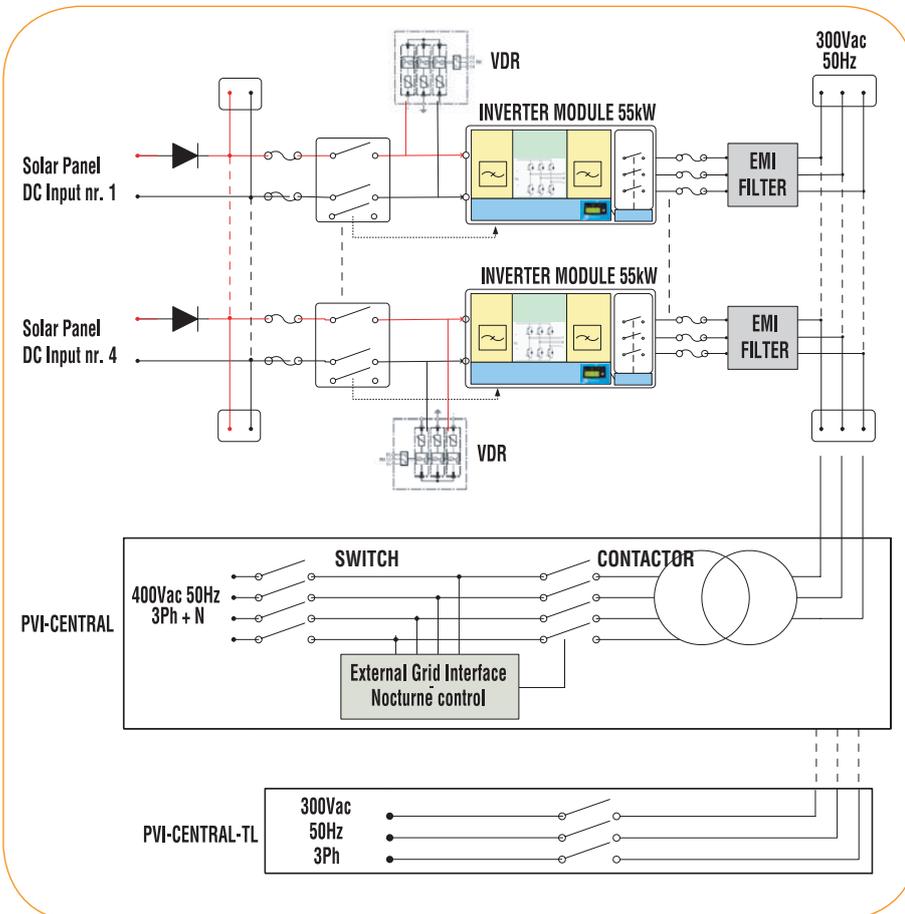
General Specification Centralized Model PVI-CENTRAL-150/200 PVI-CENTRAL-150/200-TL

AURORA® BENEFITS

- Flexible system architecture with 4 functionally independent 55kW modules, configurable in "Master-Slave" mode (modules in parallel) or "Multi-Master" mode (independent modules), or Multi-Master/Slave (two MPPT, each made up by two paralleled modules)
- Reduced acoustic noise thanks to the high switching frequency (18kHz).
- Modular configuration on 55kW independent conversion devices
- High conversion efficiency
Easy maintenance system, thanks to the possibility of quick plug & unplug of the inverter modules.
- Integrated connections, protections and disconnection from DC and AC
- Predisposition for connection without external equipment
- Reduced sensitivity to a single fault: in case of a component fault the system keeps operating with
- 55kW derating
- Also available without LV transformer for direct connection to the medium voltage network (with dedicated MT transformer)



Block Diagram - 110Kw-220Kw



CHARACTERISTICS	PVI-CENTRAL-150	PVI-CENTRAL-150-TL	PVI-CENTRAL-200	PVI-CENTRAL-200-TL
INPUT PARAMETERS				
Maximum recommended PV power [kWp]	-			
Total (master slave mode)	177	177	236	236
Per channel (multi-master mode)	59	59	59	59
Absolute maximum input voltage [Vdc]	900	900	900	900
MPPT input voltage range [Vdc]	465 - 850 (550 nominal)	465 - 850 (550 nominal)	465 - 850 (550 nominal)	465 - 850 (550 nominal)
Number of independent MPPT				
multi-master configuration	3	3	4	4
multi-master/slave configuration	2	2	2	2
master/slave	1	1	1	1
Total Maximum input current [A _{dc}]	369	369	492	492
Multi-master mode (each module)	123	123	123	123
Input Reflected Ripple voltage	< 3%	< 3%	< 3%	< 3%
Number of DC inputs available	3	3	4	4
Max. DC input wire section (each polarity)	3x120mmq (M10)	3x120mmq (M10)	4x120mmq (M10)	4x120mmq (M10)
STANDARD EQUIPMENT - INPUT				
Insulation Control	Yes, with alarm	Yes, with alarm	Yes, with alarm	Yes, with alarm
Integrated DC protection				
Reverse polarity and backfeed current protection (each input)	YES, with series diode	YES, with series diode	YES, with series diode	YES, with series diode
Input fuse overcurrent protection (each input/both polarities)	125A/1000V	125A/1000V	125A/1000V	125A/1000V
Load-breaking DC switch (each input, monitored)	125A/1000V	125A/1000V	125A/1000V	125A/1000V
Input overvoltage protection (monitored)	3 (1 for each input)	3 (1 for each input)	4 (1 for each input)	4 (1 for each input)
OUTPUT PARAMETERS				
Nominal AC Output Power, PAC _{nom} [up to 50°C, kW]	165	165	220	220
Nominal AC Output Current [Arms]	243	324	324	432
AC Output Voltage range [Vrms]	3 x 400 +/-15%	3 x 300 +/-20%	3 x 400 +/-15%	3 x 300 +/-20%
Nominal AC Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60
Power Factor [cos φ]	>0.99 (@ Pac nominal)	>0.99 (@ Pac nominal)	>0.99 (@ Pac nominal)	>0.99 (@ Pac nominal)
AC Current Harmonics [THD%]	< 4% (@ Pac nominal)	< 4% (@ Pac nominal)	< 4% (@ Pac nominal)	< 4% (@ Pac nominal)
Inverter Switching Frequency [kHz]	18	18	18	18
Max AC output wire section (each phase)	1x185mmq (M10)	1x240mmq (M12)	1x185mmq (M10)	1x240mmq (M12)
STANDARD EQUIPMENT - OUTPUT				
AC Contactor (night time disconnect)	Yes	No	Yes	No
"AC Output Circuit Breaker (Magnetothermic switch)	Yes	Yes	Yes	Yes
AC side overvoltage protection (power and aux input)	Yes	Yes	Yes	Yes
CONVERSION EFFICIENCY				
Peak Efficiency % (@ Vin nom)	95,50%	97,50%	95,50%	97,50%
Euro Efficiency % (@ Vin nom)	94,50%	96,90%	94,50%	96,90%
ENVIRONMENTAL PARAMETERS				
Environmental Protection Degree	IP20	IP20	IP20	IP20
Operating Temperature Range	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C
Required ambient air cooling flow	3000m3/h	3000m3/h	4000m3/h	4000m3/h
Relative Humidity (non-condensing)	< 95%	< 95%	< 95%	< 95%
Audible Noise [dBA @ 1mt]	<68	<66	<72	<69
AUXILIARY SUPPLY				
External Auxiliary Supply Voltage	3x400Vac + N, 50/60Hz	3x400Vac + N, 50/60Hz	3x400Vac + N, 50/60Hz	3x400Vac + N, 50/60Hz
Maximum consumption in operation	<0.2% of PAC _{nom}	<0.15% of PAC _{nom}	<0.2% of PAC _{nom}	<0.15% of PAC _{nom}
Night time losses [W]	<45W	<45W	<60W	<60W
COMMUNICATION/USER INTERFACE				
Communication Port (PC / Datalogger)	1 x RS485 (RS485_USR)	1 x RS485 (RS485_USR)	1 x RS485 (RS485_USR)	1 x RS485 (RS485_USR)
Communication - String Combiner boxes (PVI-STRINGCOMB)	1 x RS485 (RS485_2)	1 x RS485 (RS485_2)	1 x RS485 (RS485_2)	1 x RS485 (RS485_2)
Remote Communication (optional)	WEBLOGGER (Ethernet, GPRS)	WEBLOGGER (Ethernet, GPRS)	WEBLOGGER (Ethernet, GPRS)	WEBLOGGER (Ethernet, GPRS)
User Interface	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)
MECHANICAL CHARACTERISTICS				
Dimensions (WxHxD) [mm]	1250 x 2100(*) x 810	1250 x 1570(*) x 810	1250 x 2100(*) x 810	1250 x 1570(*) x 810
(*) Output Air conduit not included				
Overall Weight [kg]	1200	680	1300	780
50kW module Weight [kg]	65	65	65	65
APPROVALS				
EMC	"EN 61000-6-2, EN 61000-6-4 ; EN 61000-3-11; EN 61000-3-12			
CE Compliance	Yes			
Grid connection	DK5940 Ed. 2.2, VDEW, RD1663/2000			

MODEL SUMMARY

MODEL NUMBER	CONFIGURATION
PVI-CENTRAL-150	with transformer
PVI-CENTRAL-150-TL	without transformer
PVI-CENTRAL-200	with transformer
PVI-CENTRAL-200-TL	without transformer

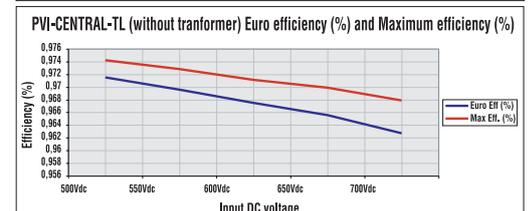
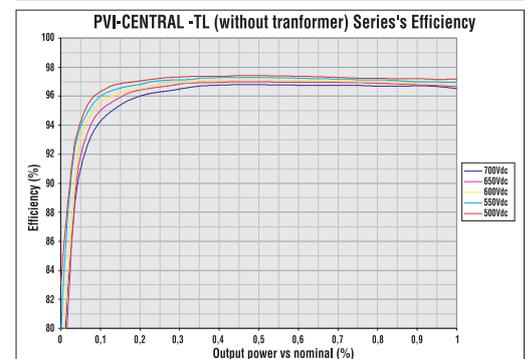
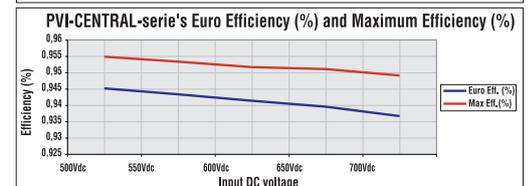
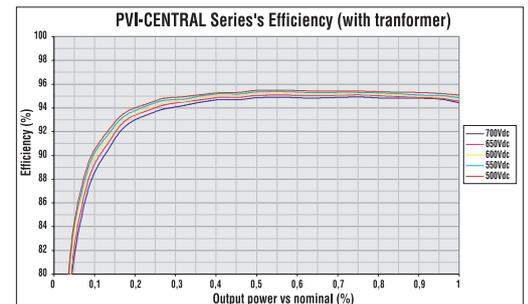
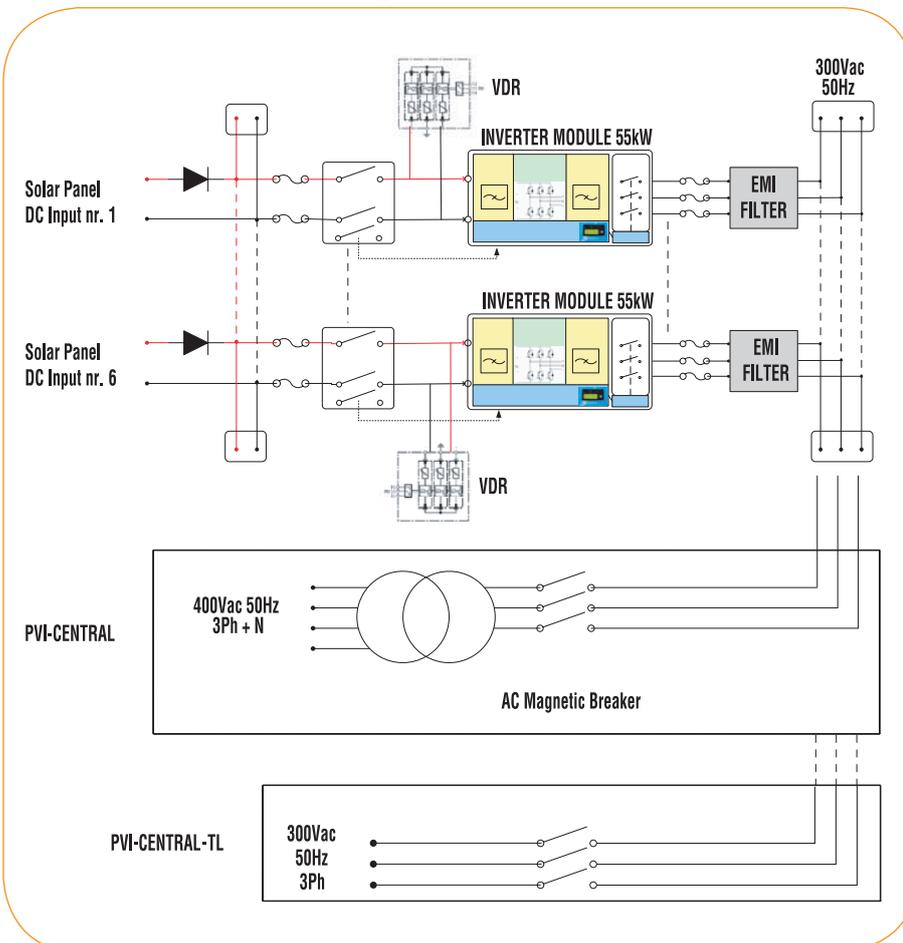
General Specification Centralized Model PVI-CENTRAL-250/300 PVI-CENTRAL-250/300-TL

AURORA® BENEFITS

- Flexible system architecture with 6 functionally independent 55kW modules, configurable in "Master-Slave" mode (modules in parallel) or "Multi-Master" mode (independent modules), or Multi-Master/Slave (three MPPT, each made up by two paralleled modules)
- Reduced acoustic noise thanks to the high switching frequency (18kHz).
- Modular configuration on 55kW independent conversion devices
- High conversion efficiency (PVI-CENTRAL-300-TL Euro efficiency 97,14%; PVI-CENTRAL-300 Euro efficiency 94,51%)
- Easy maintenance system, thanks to the possibility of quick plug & unplug of the inverter modules.
- Integrated connections, protections and disconnection from DC and AC
- Predisposition for connection without external equipment
- Reduced sensitivity to a single fault: in case of a component fault the system keeps operating with 55kW derating
- Also available without LV transformer for direct connection to the medium voltage network (with de dicated MT transformer)



Block Diagram - 250Kw-330Kw



CHARACTERISTICS	PVI-CENTRAL-250	PVI-CENTRAL-250-TL	PVI-CENTRAL-300	PVI-CENTRAL-300-TL
INPUT PARAMETERS				
Maximum recommended PV power [kWp]	-			
Total (master slave mode)	295	295	354	354
Per channel (multi-master mode)	59	59	59	59
Absolute maximum input voltage [Vdc]	900	900	900	900
MPPT input voltage range [Vdc]	465 - 850 (550 nominal)	465 - 850 (550 nominal)	465 - 850 (550 nominal)	465 - 850 (550 nominal)
Number of independent MPPT				
multi-master configuration	5	5	6	6
multi-master/slave configuration	3	3	3	3
master/slave	1	1	1	1
Total Maximum input current [A _{dc}]	615	615	738	738
Multi-master mode (each module)	123	123	123	123
Input Reflected Ripple voltage	< 3%	< 3%	< 3%	< 3%
Number of DC inputs available	5	5	6	6
Max. DC input wire section (each polarity)	5x120mmq (M10)	5x120mmq (M10)	6x120mmq (M10)	6x120mmq (M10)
STANDARD EQUIPMENT - INPUT				
Insulation Control	Yes, with alarm	Yes, with alarm	Yes, with alarm	Yes, with alarm
Integrated DC protection				
Reverse polarity and backfeed current protection (each input)	YES, with series diode	YES, with series diode	YES, with series diode	YES, with series diode
Input fuse overcurrent protection (each input/both polarities)	125A/1000V	125A/1000V	125A/1000V	125A/1000V
Load-breaking DC switch (each input, monitored)	125A/1000V	125A/1000V	125A/1000V	125A/1000V
Input overvoltage protection (monitored)	5 (1 for each input)	5 (1 for each input)	6 (1 for each input)	6 (1 for each input)
OUTPUT PARAMETERS				
Nominal AC Output Power, PAC _{nom} [up to 50°C, kW]	275	275	330	330
Nominal AC Output Current [Arms]	405	540	486	648
AC Output Voltage range [Vrms]	3 x 400 +/-15%	3 x 300 +/-20%	3 x 400 +/-15%	3 x 300 +/-20%
Nominal AC Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60
Power Factor [cos φ]	>0.99 (@ Pac nominal)	>0.99 (@ Pac nominal)	>0.99 (@ Pac nominal)	>0.99 (@ Pac nominal)
AC Current Harmonics [THD%]	< 4% (@ Pac nominal)	< 4% (@ Pac nominal)	< 4% (@ Pac nominal)	< 4% (@ Pac nominal)
Inverter Switching Frequency [kHz]	18	18	18	18
Max AC output wire section (each phase)	2x240mmq (M12)	2x240mmq (M12)	2x240mmq (M12)	2x240mmq (M12)
STANDARD EQUIPMENT - OUTPUT				
AC Contactor (night time disconnect)	No	No	No	No
AC Output Circuit Breaker (Magnetothermic switch)	Yes ()	Yes	Yes (*)	Yes
AC side overvoltage protection (power and aux input)	Yes	Yes	Yes	Yes
CONVERSION EFFICIENCY				
Peak Efficiency % (@ Vin nom)	95,50%	97,50%	95,50%	97,50%
Euro Efficiency % (@ Vin nom)	94,50%	96,90%	94,50%	96,90%
ENVIRONMENTAL PARAMETERS				
Environmental Protection Degree	IP20	IP20	IP20	IP20
Operating Temperature Range	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C
Required ambient air cooling flow	5000m3/h	5000m3/h	6000m3/h	6000m3/h
Relative Humidity (non-condensing)	< 95%	< 95%	< 95%	< 95%
Audible Noise [dBA @ 1mt]	<75	<72	<78	<75
AUXILIARY SUPPLY				
External Auxiliary Supply Voltage	3x400Vac + N, 50/60Hz	3x400Vac + N, 50/60Hz	3x400Vac + N, 50/60Hz	3x400Vac + N, 50/60Hz
Maximum consumption in operation	<0.2% of PAC _{nom}	<0.15% of PAC _{nom}	<0.2% of PAC _{nom}	<0.15% of PAC _{nom}
Night time losses [W]	<45W	<45W	<60W	<60W
COMMUNICATION/USER INTERFACE				
Communication Port (PC / Datalogger)	1 x RS485 (RS485_USR)	1 x RS485 (RS485_USR)	1 x RS485 (RS485_USR)	1 x RS485 (RS485_USR)
Communication - String Combiner boxes (PVI-STRINGCOMB)	1 x RS485 (RS485_2)	1 x RS485 (RS485_2)	1 x RS485 (RS485_2)	1 x RS485 (RS485_2)
Remote Communication (optional)	WEBLOGGER (Ethernet, GPRS)	WEBLOGGER (Ethernet, GPRS)	WEBLOGGER (Ethernet, GPRS)	WEBLOGGER (Ethernet, GPRS)
User Interface	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)
MECHANICAL CHARACTERISTICS				
Dimensions (WxHxD) [mm]	1250 x 2100(*) x 810 +	1250 x 2100(*) x 810	1250 x 2100(*) x 810 +	1250 x 2100(*) x 810
(*) Output Air conduit not included	1250 x 1055(*) x 810 (trafo box)		1250 x 1055(*) x 810 (trafo box)	
Overall Weight [kg]	1600	1000	1700(*)	1100(*)
50kW module Weight [kg]	65	65	65 (*)	65 (*)
APPROVALS				
EMC		"EN 61000-6-2, EN 61000-6-4 ; EN 61000-3-11; EN 61000-3-12		
CE Compliance		Yes		
Grid connection		DK5940 Ed. 2.2, VDEW, RD1663/2000		

MODEL SUMMARY

MODEL NUMBER	CONFIGURATION
PVI-CENTRAL-250	with transformer
PVI-CENTRAL-250-TL	without transformer
PVI-CENTRAL-300	with transformer
PVI-CENTRAL-300-TL	without transformer

GENERAL SPECIFICATIONS OUTDOOR MODELS PVI-3.0-OUTD-XX-W PVI-3.6-OUTD-XX-W PVI-4.2-OUTD-XX-W



Wind Interface Box
optional



AURORA® BENEFITS

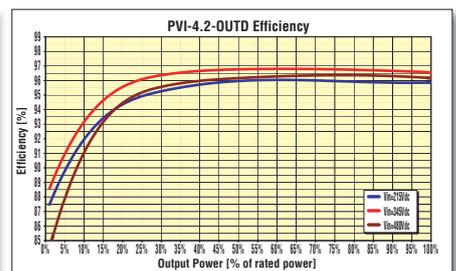
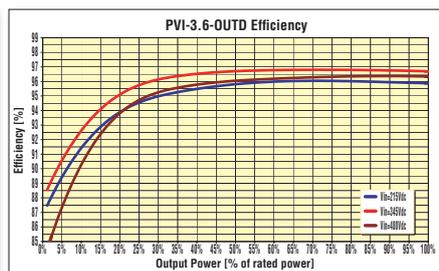
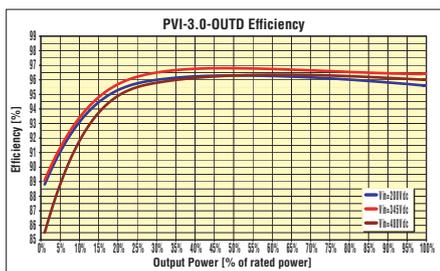
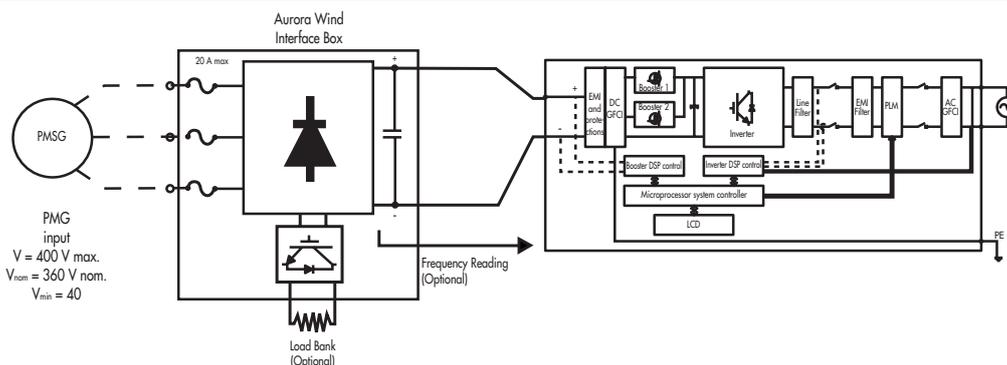
- Transformerless operation for highest efficiency: up to 96,8% (96% Euro; 96% CEC)
- IP65 (NEMA 4), completely sealed unit to withstand the harshest environmental conditions
- Compact size and high power density: up to 4.2KW of output power in a box just 547mm x 325mm x 208mm and 17Kg weight.
- optimized real time power curve tracking algorithm and improved energy harvesting
- Heatsink keeps the unit cleaner and more efficient over time
- 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 the power max limits 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 silicon Power devices such as CoolMOS™ and Insulated Gate Bi-polar Transistors (IGBT's) to reduce switching losses. Aurora has been designed with substantial de-rating 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 96,8%.

Best in class with an outstanding input voltage range (50V to 580V) and ambient temperature range (-25°C to +60°C). Dedicated software to upload the wind generator power curve (16 points interpolation). WIND INTERFACE BOX is optional

Block Diagram and typical efficiency



CHARACTERISTICS	PVI-3.0-OUTD-XX-W	PVI-3.6-OUTD-XX-W	PVI-4.2-OUTD-XX-W
Output Power Rating Ac [W]	3000	3600	4200
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)
Max Input current [Aac]	20	32	32
Max Power Voltage Range	180Vdc-530Vdc	180Vdc-530Vdc	180Vdc-530Vdc
Input Configuration	Two channes parallel with common power curve	Two channes parallel with common power curve	Two channes parallel with common power curve
Nominal AC Voltage (Range) [Vrms]	Single-phase 200-245 Vac (180-264Vac)	Single-phase 200-245 Vac (180-264Vac)	Single-phase 200-245 Vac (180-264Vac)
Nominal AC Frequency [Hz]	50	50	50
Line Power Factor	1	1	1
Maximum AC Line Current [Arms]	14.5	17.2	20
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 [%]	96,8% (96,0% Euro; 96,0% CEC)	96,8% (96,0% Euro; 96,0% CEC)	96,8% (96,0% Euro; 96,0% CEC)
Operating Ambient Temperature [°C]	-25 to +60 Derating per Tamb>55°C	-25 to +60 Derating per Tamb>55°C	-25 to +60 Derating per Tamb>45°C
Losses [W]	<8	<8	<8
Enclosure Environmental Rating	IP65	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]	547 x 325 x 208	547 x 325 x 208	547 x 325 x 208
Weight [kg]	17	17	17

SMART CONTROLS

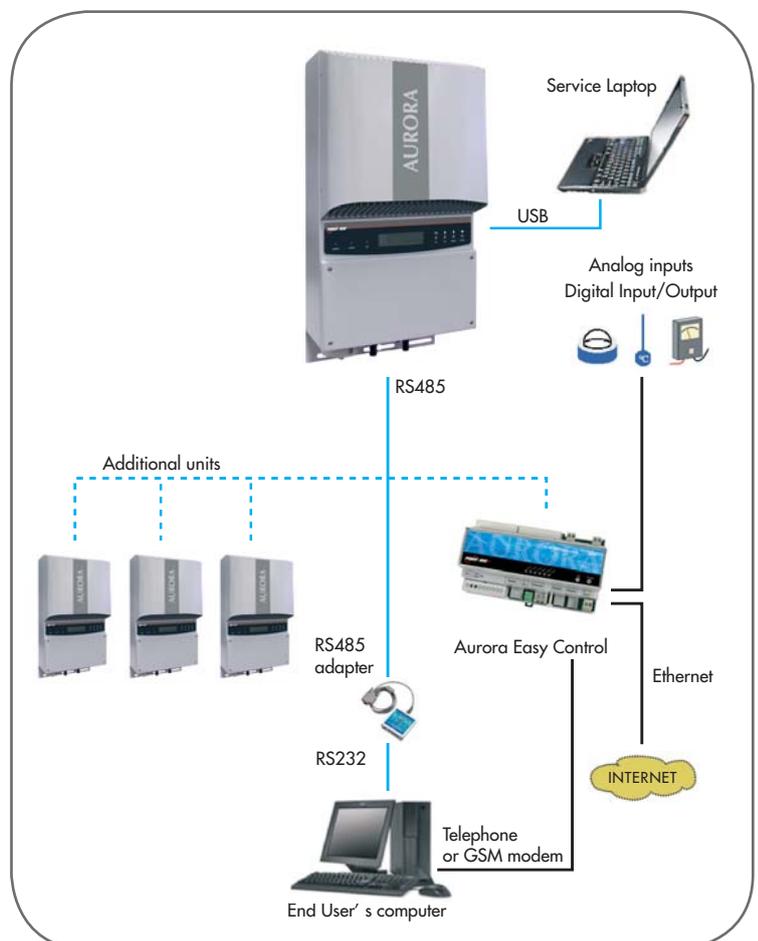
Aurora controls are DSP (Digital Signal Processor) based with sophisticated control and self-diagnostics algorithms. An LCD shows the main operational parameters. Three LED's indicate the operating status.

BEST IN CLASS COMMUNICATION CAPABILITIES

Aurora features an integrated RS485 Communication link and a USB port. An RS485 to RS232 converter (optional) is available to monitor the unit. AURORA Easy-Communicator (optional) allows remote monitoring via internet, GSM or analog modem.

STANDARDS AND CODES

Aurora inverters comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: CSA- C22.2 N.107.1-01, UL1741, G83/1, CEI 11-20 IV ed, DK5940, IEC61683, IEC61727, EN50081, EN50082, EN61000, Certification CE, EI Real decreto RD 1663/200 De Espana, EN50438.



General Specifications

Outdoor models

PVI-6000-OUTD-US-W

PVI-6000-OUTD-IT-W

PVI-6000-OUTD-ES-W



Wind Interface Box
opzionale



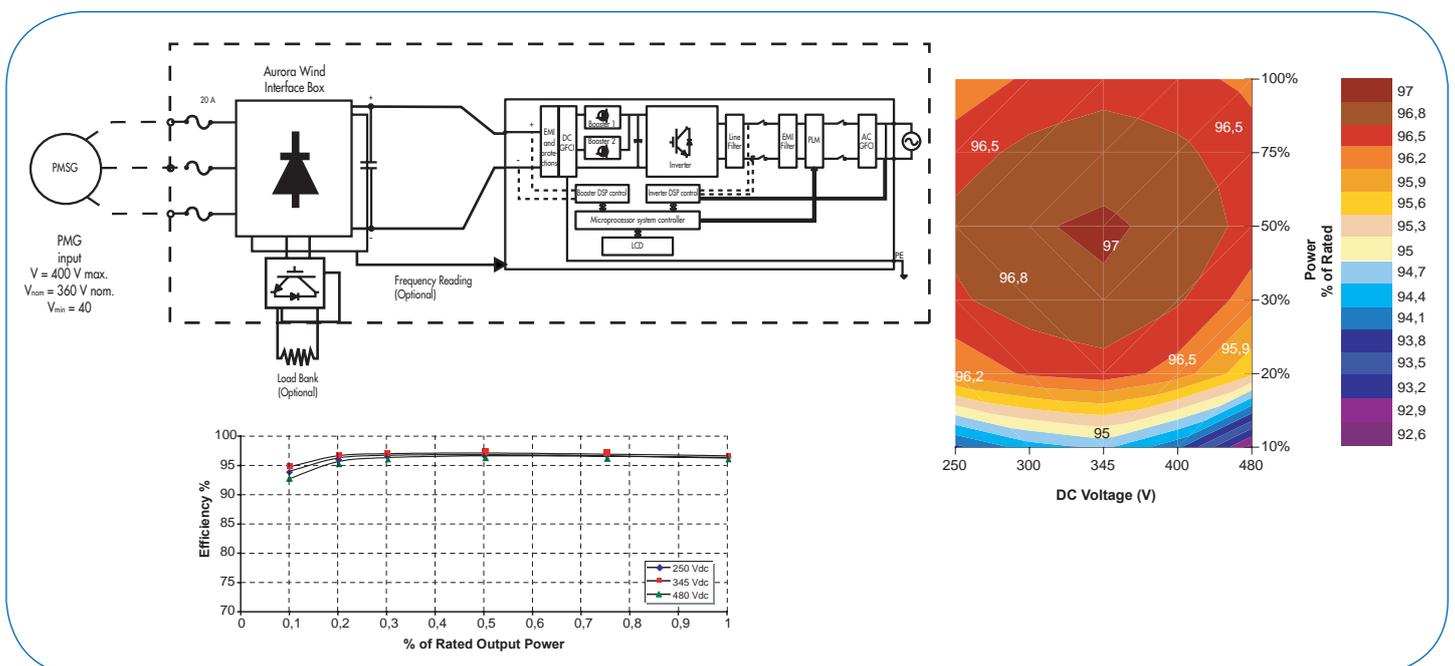
AURORA® BENEFITS

- 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

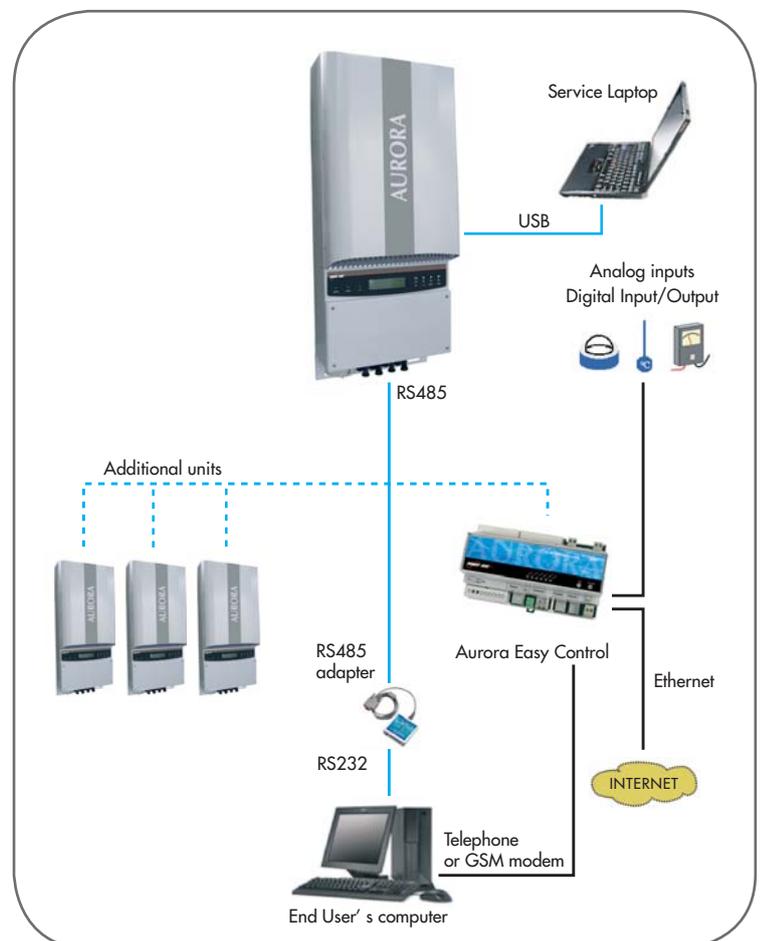
Aurora controls are DSP (Digital Signal Processor) based with sophisticated control and self-diagnostics algorithms. An LCD shows the main operational parameters. Three LED's indicate the operating status.

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.



GENERAL SPECIFICATIONS PVI-WIND-INTERFACE

Wind Interface Box

The Power-One Aurora Wind Interface Box represents an application of the successful Aurora inverter to small wind applications. The compact wind interface box is designed for a grid-connected application. The Aurora inverter can be configured to an OEM's specific power curve.

The model PVI-Windbox is used in combination with the Aurora Wind Inverter.

AURORA® Wind Interface Features

- Conversion efficiency at rating: 99.4%
- 3-Phase input from PMG
- High output power at full rating 7200W
- Fused wind input
- Automatic brake function above 530 Vdc
- External brake resistor options



Wind Interface Box

Description	Parameters
Input Voltage Range (no damage)	0 to 400 VAC
Operating Input Voltage range from PMG (permanent Magnet Generator)	40-400Vac / 0-600Hz
Max. Operating Input Current	16.6A RMS
Input Overcurrent (fuse protected)	20A RMS
Max. Output Power (@400 VAC, PFC>0.7)	7200W
Output Voltage Range (operating)	50-600 Vdc
Automatic Brake Function	>530 Vdc
Efficiency (@400 VAC, PFC>0.7)	99.4%
DC Output Voltage Range	0-600 Vdc
Max. Current in the Brake Resistor	30 A
Operating Ambient Temperature	-25°C to +55°C
Enclosure Type	NEMA 4X
Relative Humidity	0-100% condensing
Audible Noise	< 40 dBA
Size (height x width x depth)	290x260x95 (mm)

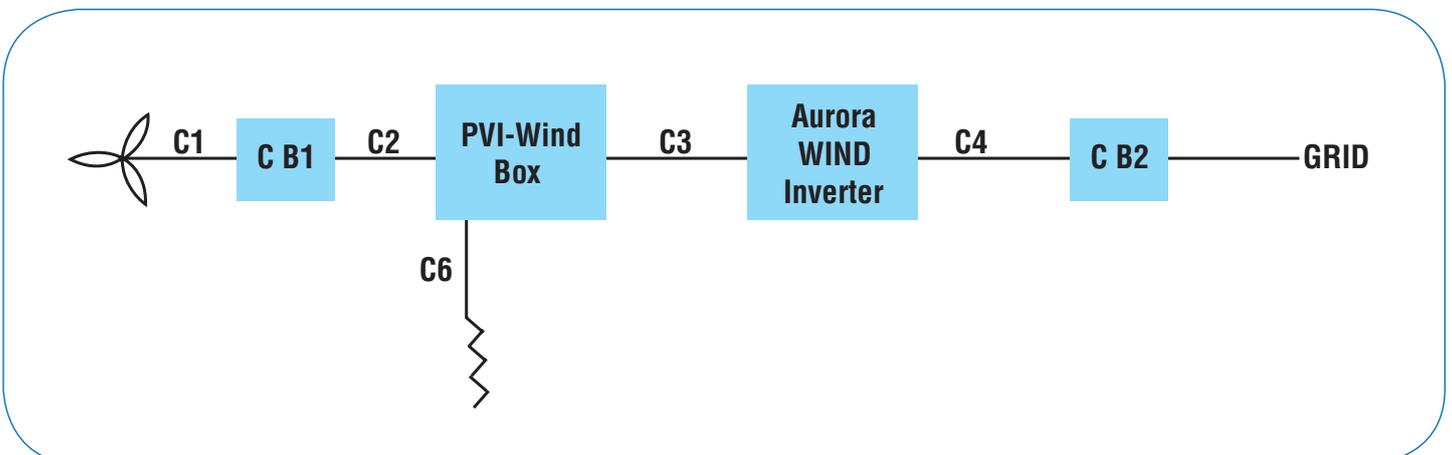
MODELS SUMMARY

MODEL CODE	POWER
PVI-7200-WIND-INTERFACE	7200W
PVI-4000-WIND-INTERFACE	4000W

STANDARDS AND CODES

WIND-INTERFACE BOX comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: UL1741 and CSA C22.2 N.107.1-01

Block Diagram





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Rev.1.3 15/10/2009 - Aurora® is a trademark by Power-One - Product is subject to technical improvements