power-one®
Changing the Shape of Power

AURORA®

Photovoltaic Inverter & Wind Inverter

Power solutions for renewable energy sources and energy saving

PVI-2000 / PVI-3600

AURORA®
Photovoltaic Inverter

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

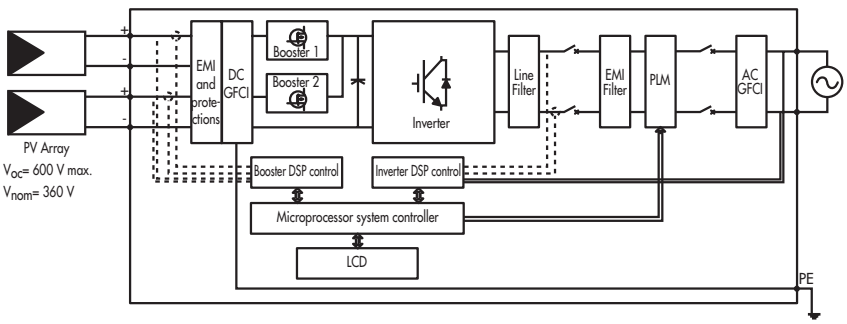
SMART CONTROLS

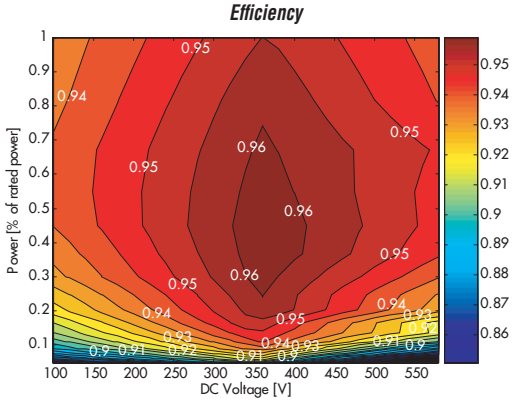
Aurora controls are DSP (Digital Signal Processor) based with sophisticated control and self-diagnostic algorithms.
A 128 x 128 graphical LCD display shows the unit's operating status, its performance and diagnostic messages.
Four scrolling keys on the front panel of the unit are used to navigate menus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





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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)	10 (12 shortcircuit)
DC Connection	2 (1 positive, 1 negative)	4 (2 positive, 2 negative)
	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)	
Opertaing 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

Rev. 1.5 - 02/04/2009 - Aurora is a trademark by Power-One - Product is subject to technical improvements

PVI-2000-OUTD

AURORA®
Photovoltaic Inverter

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

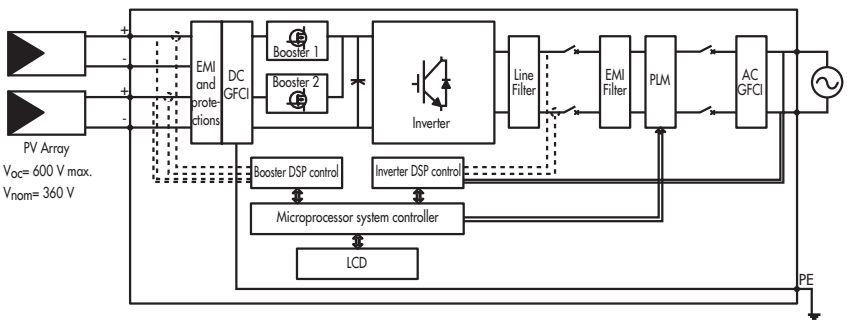
SMART CONTROLS

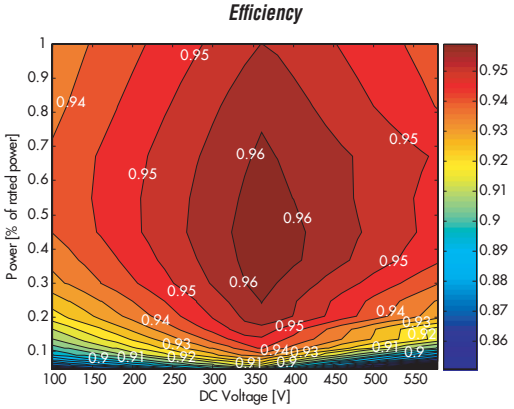
Aurora controls are DSP (Digital Signal Processor) based with sophisticated control and self-diagnostic algorithms.
A LCD display shows the main operational parameters. Three LED's indicate the operating status.

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)
DC Connection	1 (1 positive, 1 negative) 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)
Opertaing 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

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PVI-3.0-OUTD / PVI-3.6-OUTD / PVI-4.2-OUTD

AURORA®
Photovoltaic Inverter

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

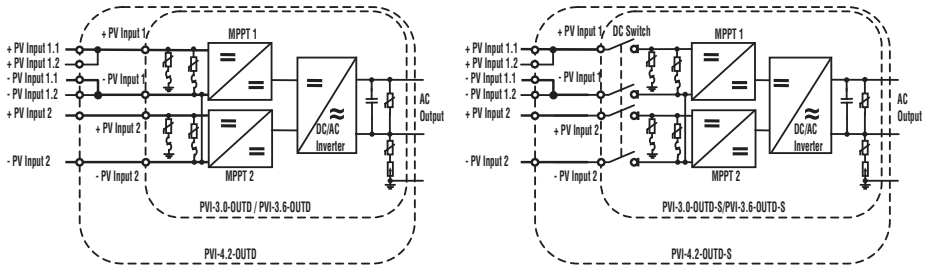
AURORA® BENEFITS

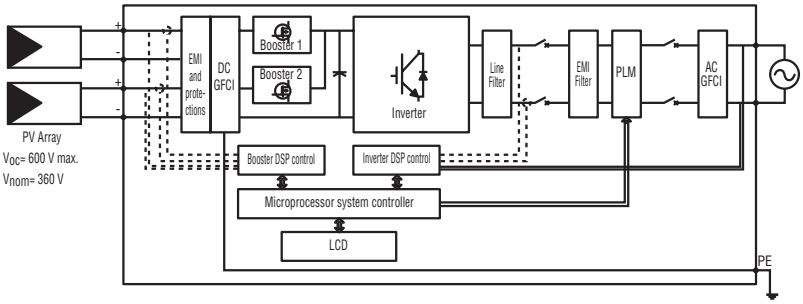
- Dual input section to process two strings with independent MPPT
- High speed MPPT for real time power tracking and improved energy harvesting
- Transformerless operation for highest efficiency: up to 96,8% (Euro 96%)
- Reverse polarity protection minimizes chance of damage due to mis-wiring
- True 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)

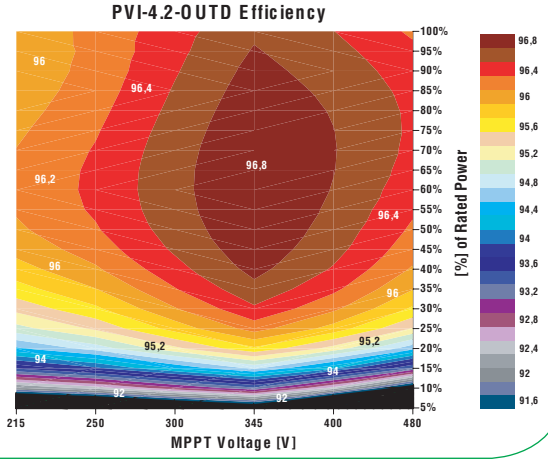
STANDARDS AND CODES

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 certifi cation, El Real Decreto RD1663/2000 de España.

Block Diagram and typical 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	
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)		
Opertaing 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

Rev. 1.2 - 08/09/2009 - Aurora is a trademark by Power-One - Product is subject to technical improvements

PVI-5000-OUTD / PVI-6000-OUTD

AURORA®
Photovoltaic Inverter

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

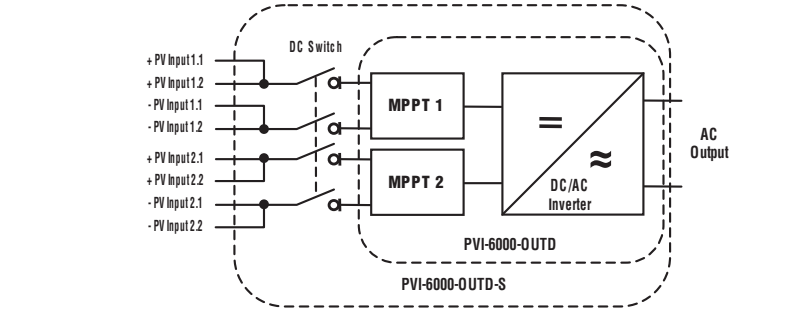
SMART CONTROLS

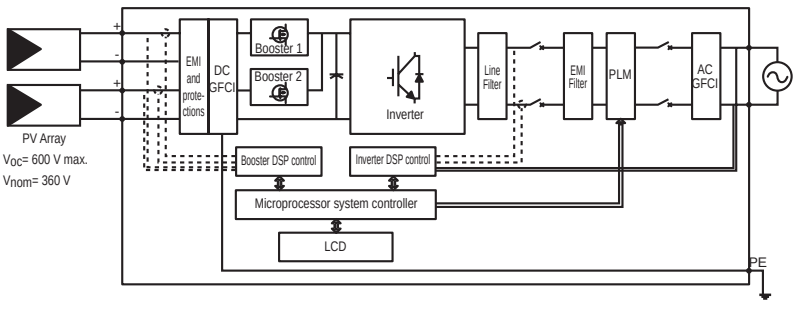
Aurora controls are DSP (Digital Signal Processor) based with sophisticated control and self-diagnostic algorithms.
A LCD display shows the main operational parameters. Three LED's indicate the operating status.

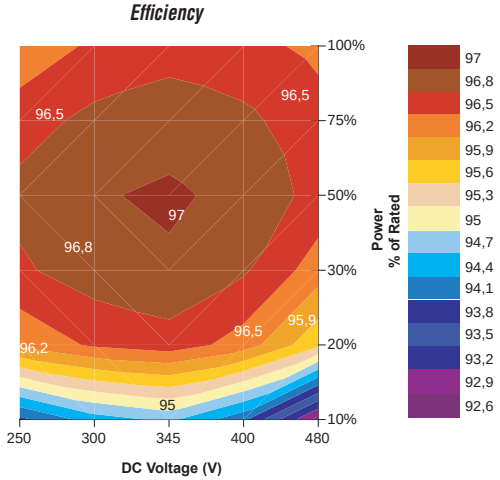
STANDARDS AND CODES

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-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)	
Opertaing 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

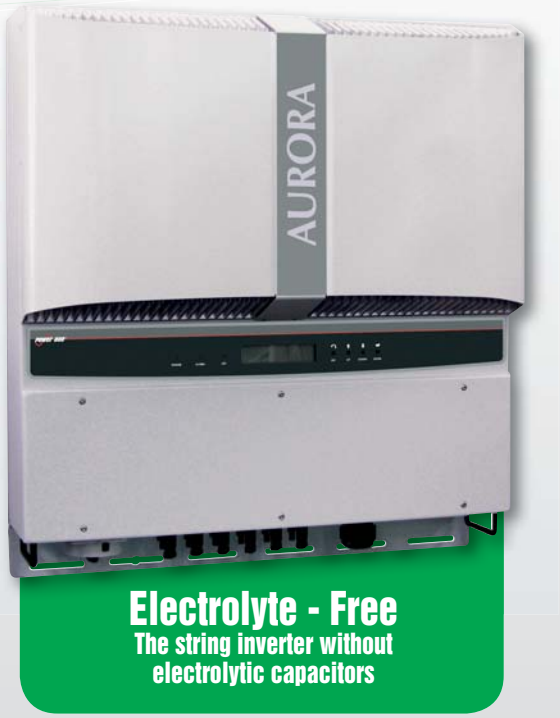
MODEL NUMBER	POWER
PVI-5000-OUTD	5000W
PVI-5000-OUTD-S	5000W with DC Switch
PVI-6000-OUTD	6000W
PVI-6000-OUTD-S	6000W with DC Switch

Rev. 1.1 - 16/06/2009 - Aurora is a trademark by Power-One - Product is subject to technical improvements

PVI-10.0-OUTD / PVI-12.5-OUTD

AURORA®
Photovoltaic Inverter

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



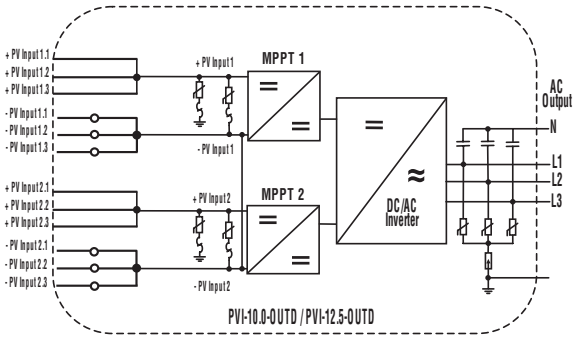
AURORA® BENEFITS

- Dual indipendent 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 betters 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. Maximun 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

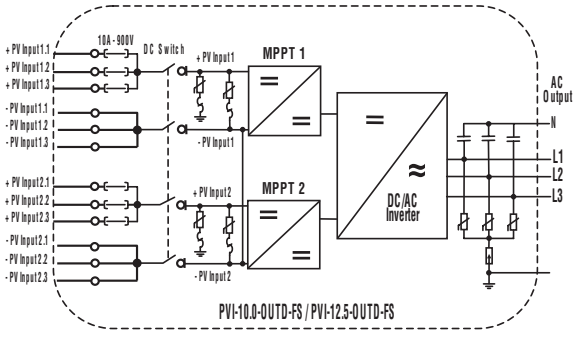
STANDARDS AND CODES

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

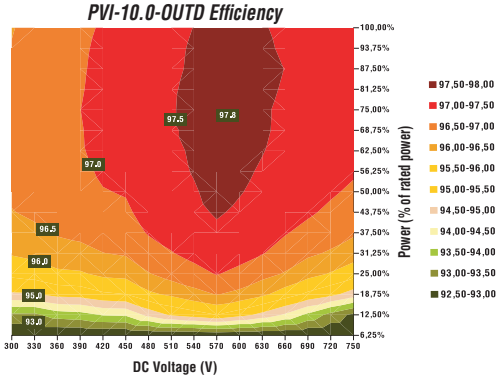


PVI-10.0-OUTD / PVI-12.5-OUTD

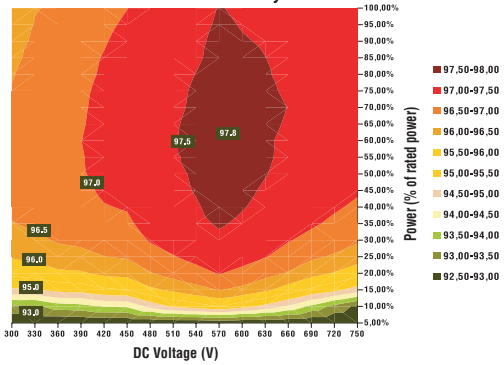


PVI-10.0-OUTD-FS / PVI-12.5-OUTD-FS

PVI-10.0-OUTD Efficiency



PVI-12.5-OUTD 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)	
Opertaing 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

Rev. 1.3 - 08/09/2009 - Aurora is a trademark by Power-One - Product is subject to technical improvements