

Advance Product Release

**General Specifications
Outdoor Models**

- PVI-CENTRAL-150-US-480**
- PVI-CENTRAL-200-US-480**
- PVI-CENTRAL-250-US-480**
- PVI-CENTRAL-300-US-480**



High-Efficiency, 150 kW to 300 kW Inverters

Aurora[®] grid-tie central inverters offer a unique combination of ultra-high efficiencies, installer-friendly designs, long service life, and competitive initial acquisition costs; significantly increasing return on investment in solar-power installations.

Industry-Leading Features and Performance

- High efficiencies deliver more energy – up to 96.4% (96% CEC).
- Modular/scalable architecture based on 50 KW functionally independent clusters.
- Master/Slave configuration minimizes module fault losses. Possibility of redundant configuration.
- Reduced acoustic noise (very low audible noise): switching frequency beyond audible range (18 kHz).

Unmatched Applications Flexibility

- Full-rated power available up to 40 °C.
- Wide MPPT operating range: 330 to 600 VDC.

Field-Proven Reliability

- NEMA3 rated enclosure.
- Self-cooling design.
- Grid-connected operation according to international standards.
- Five-year warranty, optionally extendable to twenty years.



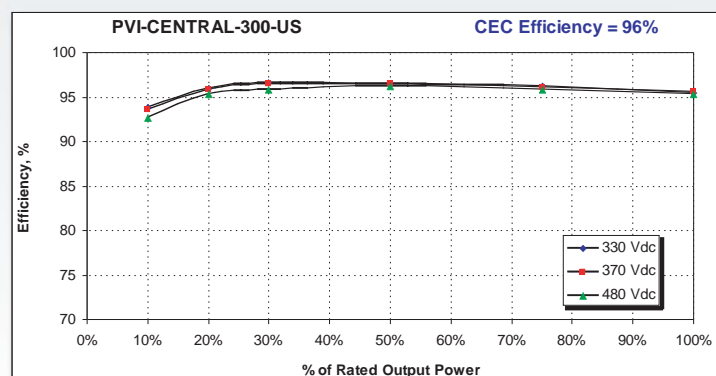
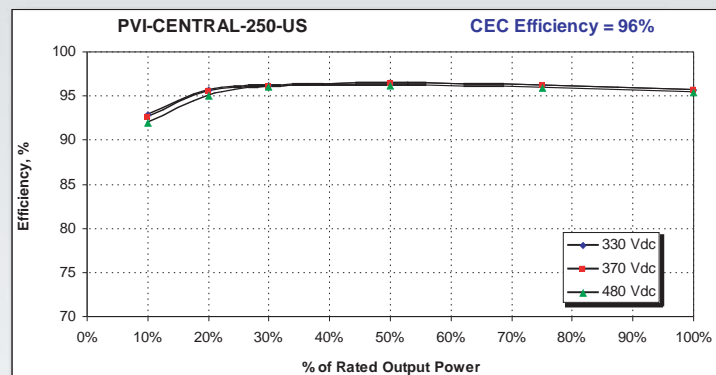
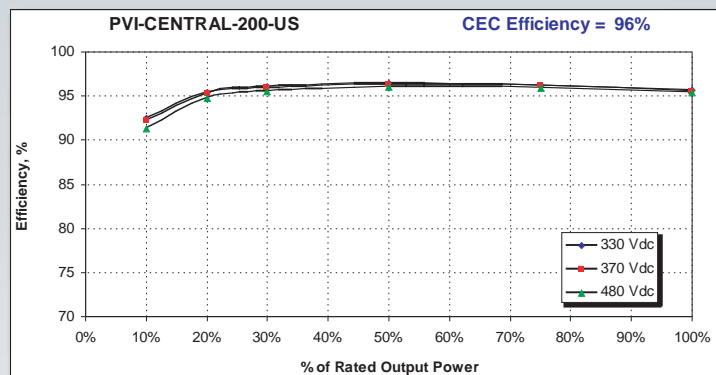
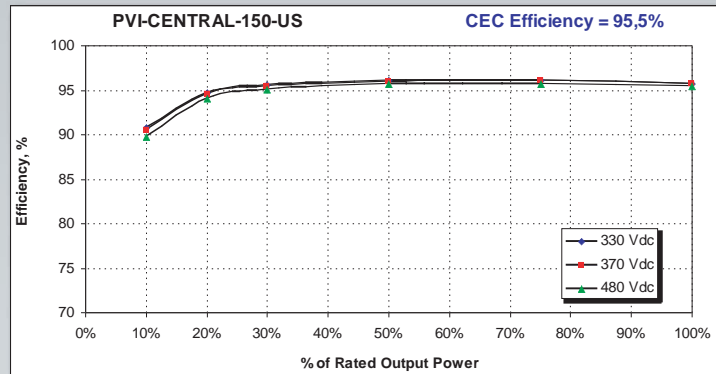
Models	AC Power
PVI-CENTRAL-150-US-480	150 kW
PVI-CENTRAL-200-US-480	200 kW
PVI-CENTRAL-250-US-480	250 kW
PVI-CENTRAL-300-US-480	300 kW
Options	
Detailed string monitoring available with string combiner.	
AURORA [®] Central CVI simplifies monitoring via PC. AURORA [®] Web-logger central available for remote control via Internet/Ethernet.	

Installer Friendly

- Reverse-polarity protection minimizes potential damage caused by miswiring during installation.
- Front-panel mounted LCD display provides real-time updates for all critical operating parameters.
- RS-485 communications interfaces.
- Integrated DC switch for each 50 kW module.
- AC and DC side integrated protection (fuses and OVR) easily replaceable.
- Integrated AC magnetic breaker.
- High efficiency isolation transformer
- Anti-island protection.
- Ease of repair and maintenance thanks to the full front accessibility of parts.

High Efficiencies Across a Broad Range of Operating Conditions

PVI-CENTRAL-150/300 inverters work with nominal output voltage, at up to 96.4% efficiency (CEC 96%). The graphs to the right illustrate the industry-leading performance of all models at three discrete MPPT-voltage reference points, and a continuous range of load conditions.

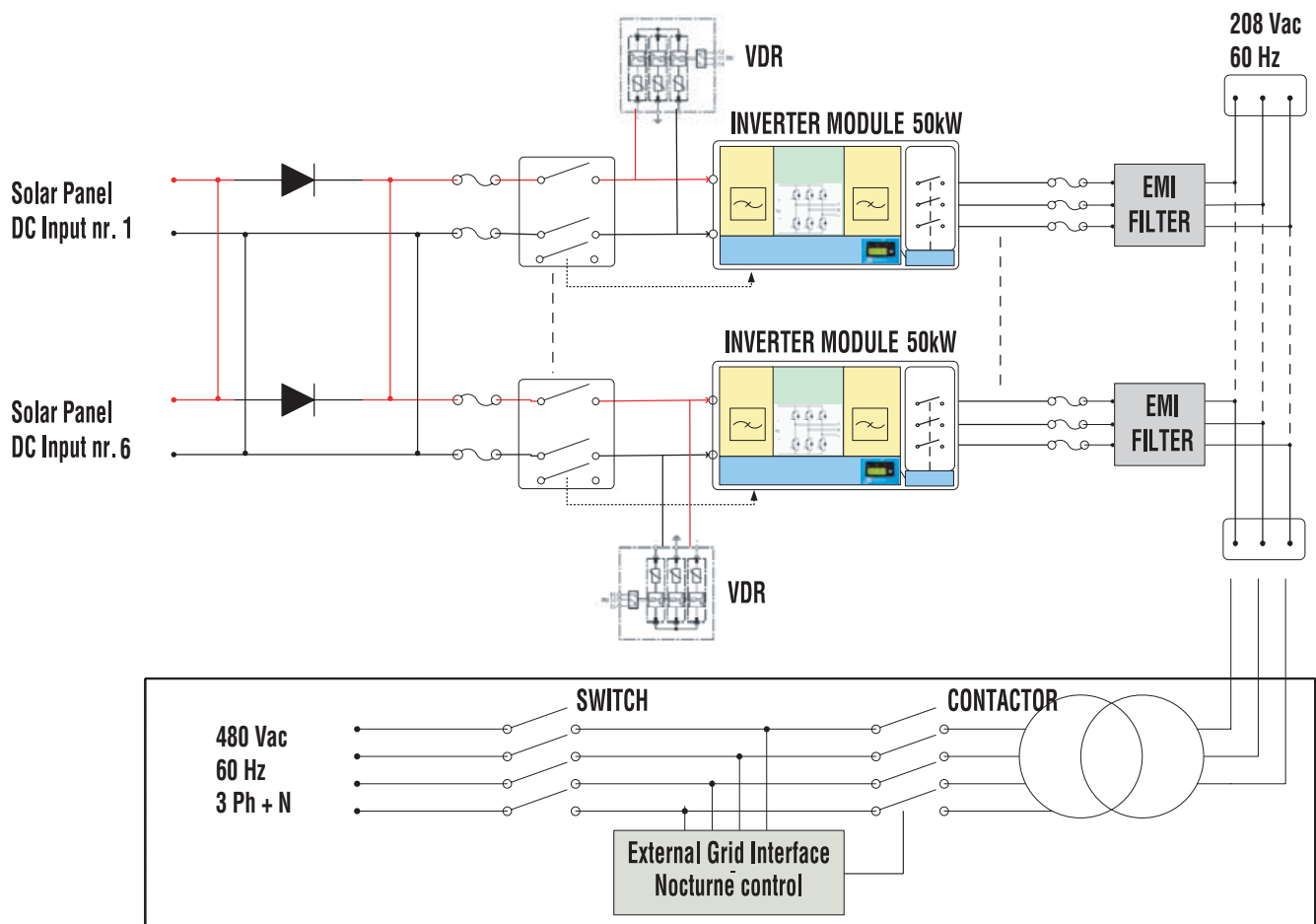


SPECIFICATIONS	PVI-CENTRAL-150-US	PVI-CENTRAL-200-US	PVI-CENTRAL-250-US	PVI-CENTRAL-300-US
INPUT PARAMETERS (DC Side)				
Nominal DC Power [kW]	156	208	260	312
Total Max. Recommended DC Power [kW]	165	220	275	330
Operating MPPT Input Voltage Range [V]	330 to 600 (370 nominal)			
Max. Input Voltage [V]	600			
Activation Voltage [V]	330			
No of Independent MPPT Trackers	1			
No. of DC Inputs	3	4	5	6
Max. DC Current, Each MPPT [A]	510	680	850	1020
No. of Overvoltage Protection Inputs	3	4	5	6
DC Switch	3	4	5	6
DC Fuses	3 (1 for each 50kW)	4 (1 for each 50kW)	5 (1 for each 50kW)	6 (1 for each 50kW)
DC Connections	6 (3 positive, 3 negative) Input connector size lug 3/8"	8 (4 positive, 4 negative) Input connector size lug 3/8"	10 (5 positive, 5 negative) Input connector size lug 3/8"	12 (6 positive, 6 negative) Input connector size lug 3/8"
OUTPUT PARAMETERS (AC Side)				
Nominal AC Power [kW]	150	200	250	300
AC Grid Connection	3 phases 480 VAC	3 phases 480 VAC	3 phases 480 VAC	3 phases 480 VAC
Nominal AC Voltage Range [V]	480	480	480	480
Maximum AC Voltage Range [V]	423-528	423-528	423-528	423-528
Nominal AC Frequency [Hz]	60			
Max. AC Line Current [A]	180	240	300	360
AC Side Varistor	Yes , between phases and neutral with fuse			
AC Connection	Output Connector Size: Phases - lug 3/8" + Neutral - lug 1/ 2"			
Line Power Factor	> 0.99			
AC Current Distortion (THD)	3% at rated power with sine wave voltage			
Max. Efficiency	96.2%	96.3%	96.5%	96.5%
CEC Efficiency	95.5%	96%		
Auxiliary Voltage Consumption [W]	< 0.3%	< 0.3%	< 0.3%	< 0.3%
Nighttime Consumption [W]	< 45	< 60	< 75	< 90
Inverter Switching Frequency [kHz]	18			
ENVIRONMENTAL PARAMETERS				
Required Ambient Air Cooling Flow (Cubic meter/ hr)	3000	4000	5000	6000
Ambient Temp. Range [°C]	- 25 / + 40 (until 50 °C with derating)			
Operating Altitude [ft]	3,000			
Acoustical Noise [dBA]	54			
Environmental IP Rating	3R			
Relative Humidity	0-95%			
MECHANICAL				
Dimensions (HxWxD) [inches]	76.6 x 115.5 x 49.2			
Weight [lbs]	4700	4900	5300	5500
OTHER				
Display	YES (graphic)			
Communication	RS485 (screw terminal block) "AURORA [®] Web-Logger Central" system for remote control (Optional)			

Standards and Codes

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

Block Diagram and Operating Configurations



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TECHNICAL REVISIONS - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.

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