



PVI 50KW
PVI 60KW
PVI 75KW
PVI 85KW
PVI 100KW

FEATURES

- Compliant with NEC 2014 690.11 & 690.12 arc fault and rapid shutdown requirements when coupled with ARCCOM combiner
- Highest peak and CEC efficiencies
- Modbus communications
- User-interactive LCD
- Real power curtailment

OPTIONS

- Fuse or breaker subcombiner options
- Dust filter
- Forward facing disconnects
- Stainless steel enclosure
- Web-based monitoring
- Built-in cellular connectivity
- Sub-array monitoring

COMMERCIAL INVERTERS

The PVI 50-100KW inverters are compliant with NEC 2014 690.11 & 690.12 requirement when ordered with the ARCCOM combiner. The most customizable full line of commercial grid-tied PV inverters available today, the PVI 50-100KW series has been utilized in projects ranging from 50KW to multi-megawatt solar farms, including a 30MW solar farm. This series of inverters is capable of operating at 208 VAC, 240 VAC, 480 VAC, and 600 VAC and comes standard with AC and DC disconnects, transformer isolation, LCD, and monitoring gateway. They also contain a lightweight power stage making it easily serviceable. Options include premium efficient models, integrated fuse or breaker subcombiners, forward facing disconnects, stainless steel enclosure, web-based monitoring and sub-array monitoring, built-in cellular connectivity, and a dust filter. AC voltage and frequency settings may be customized according to utility specification.



SPECIFICATIONS		PVI 50KW	PVI 60KW	PVI 75KW	PVI 85KW	PVI 100KW
DC Input						
Absolute Maximum Input Voltage		600 VDC				
Max Power Input Voltage Range (MPPT)*		300-500 VDC				
MPPT Input Voltage Range - Low Voltage Option		285-500 VDC				
Maximum Operating Input Current		176 A	211 A	264 A	299 A	351 A
Maximum Operating Input Current - Low Voltage Option		185 A	222 A	278 A	314 A	370 A
Maximum PV Power (per MPPT)		65 kW	78 kW	97.5 kW	110.5 kW	130 kW
Strike Voltage		400 V				
Strike Voltage - Low Voltage Option		380 V				
Rapid Shutdown Bleed Down Time (to < 30V)		< 10s				
AC Output						
Nominal Output Voltage		208, 240, 480 or 600 VAC, 3-Ph (3-wire standard, 4-wire optional)				
AC Voltage Range (Standard)		-12%/+10%				
Continuous Output Power		50 kW	60 kW	75 kW	85 kW	100 kW
Continuous Output Current	208 VAC	139 A	167 A	208 A	236 A	278 A
	240 VAC	120 A	144 A	180 A	205 A	240 A
	480 VAC	60 A	72 A	90 A	102 A	120 A
	600 VAC	48 A	58 A	72 A	82 A	96 A
Maximum Backfeed Current		0 A				
Nominal Output Frequency		60 Hz				
Output Frequency Range		57.0 -60.5 Hz				
Power Factor		Adjustable - 0.9 to +0.9, factory set at 1				
Fault Current Contribution (1 Cycle RMS) (208 / 240 / 480 VAC)		167 A; 144 A; 72 A	200 A; 173 A; 86 A	250 A; 216 A; 108 A	283 A; 246 A; 122 A	334 A; 288 A; 144 A
Total Harmonic Distortion (THD) @ Rated Load		<3%				
Efficiency						
Peak Efficiency	208 VAC	96.7%	96.7%	97.3%	96.6%	96.5%
	240 VAC	97.7%	97.8%	97.1%	96.7%	96.9%
	480 or 600 VAC	96.5%	96.5%	97.2%	96.9%	96.9%
CEC Efficiency	208 VAC	96.0%	96.0%	97.0%	96.0%	96.0%
	240 VAC	97.0%	97.0%	96.0%	96.0%	96.0%
	480 VAC	96.0%	96.0%	97.0%	96.5%	96.5%
Tare Loss		< 3 W				
Subcombiner Options						
Fuses or Breakers		2-8 positions, 40-300 A				
Temperature						
Ambient Temperature Range (full power)		-40°F to +131°F (-40°C to +55°C)				
Storage Temperature Range		-40°F to +131°F (-40°C to +55°C)				
Relative Humidity (non-condensing)		0-95%				
Data Monitoring						
Optional SolrenView Web-based Monitoring		Integrated				
Optional Revenue Grade Monitoring		External				
Optional SolZone™ Sub-Array Monitoring (DC Current)		2-8 zones				
Optional Cellular Communication		SolrenView AIR				
External Communication Interface		RS-485 SunSpec Modbus RTU				
Certifications						
Safety Listings & Certifications		UL 1741/IEEE 1547, CSA C22.2#107.1, FCC part 15 B				
Certification Agency		ETL				
Warranty						
Standard		5 year				
Optional		10, 15, 20 year; extended service agreement; uptime guarantee				
Enclosure						
dBA (Decibel) Rating		< 62 dBA @ 3 m				
Transformer		Standard, fully-integrated (internal)				
AC/DC Disconnects		Standard, fully-integrated				
Dimensions - Side Facing Disconnects (H x W x D)		78.2 in. x 50-53 in. x 33 in. (1987 mm x 1270-1347 mm x 839 mm)**				
Dimensions - Forward Facing Disconnects (H x W x D)		78.2 in. x 79-88 in. x 33 in. (1987 mm x 2007-2236 mm x 839 mm)**				
Weight		1450 lbs (658 kg)		1875 lbs (851 kg)		
Enclosure Rating		Type 3R				
Enclosure Finish		Polyester powder coated steel; Optional 316 stainless steel				

*At nominal AC voltage

**Width dependent upon rating of disconnect chosen