

## COMMERCIAL INVERTERS

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

**FEATURES**

- Full-line of inverters: 50, 60, 75, 85 and 100 kW
- Fully-integrated design with AC and DC disconnects
- Transformer isolated
- 208 VAC, 240 VAC, 480 VAC or 600 VAC
- MODBUS communications
- User-interactive LCD display

**OPTIONS**

- Premium efficient model
- Fused subcombiners
- Forward facing disconnects
- Stainless steel enclosure
- Web-based monitoring
- Sub-array monitoring
- Built-in cellular connectivity
- Dust filter

**OPTIONS FOR UTILITIES**

- Real power curtailment
- Reactive power control
- Voltage ride through
- Frequency ride through



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The most fully customizable full-line of commercial grid-tied PV inverters available today, the PVI 50-100KW series of Solectria Renewables inverters has been utilized in projects ranging from 30kW to multi-megawatt solar farms. 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 display, and monitoring gateway. Options include a premium efficient models, integrated fused subcombiners, forward facing disconnects, stainless steel enclosure, web-based and sub-array monitoring, built-in cellular connectivity, and/or a dust filter. AC voltage and frequency settings may be customized according to utility specifications.



Built for the real world

SPECIFICATIONS		PVI 50KW	PVI 60KW	PVI 75KW	PVI 85KW	PVI 100KW
DC Input						
Absolute Maximum Input Voltage		600 VDC				
MPPT Input Voltage Range		312-500 VDC				
MPPT Input Voltage Range - LV Option		296-500 VDC				
Maximum Operating Input Current		169 A	202 A	252 A	285 A	334 A
Maximum Operating Input Current - LV Option		178 A	213 A	265 A	300 A	352 A
AC Output						
Nominal Output Voltage		208, 240, 480 or 600 VAC, 3-Ph (4 wire option)				
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	145 A	180 A	205 A	241 A
	480 VAC	60 A	73 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		59.3-60.5 Hz				
Power Factor		Unity, >0.99				
Total Harmonic Distortion (THD)		<3%				
Efficiency						
Peak Efficiency	208 VAC Premium	96.5%		97.0%		
	208/240 VAC	96.0%		96.5%		
	480 VAC Premium	97.0%		97.5%		
	480/600 VAC	96.5%		97.0%		
CEC Efficiency	208 VAC Premium	96.0%		96.5%		
	208/240 VAC	95.5%		96.0%		
	480 VAC Premium	96.5%		97.0%		
	480/240 VAC	96.0%		96.5%		
Tare Loss	208 VAC	4 W				
	240 VAC	5 W				
	480 VAC	8 W				
	600 VAC	12 W				
Subcombiner Options						
Fused		2-8 positions, 40-275 A				
Breakers		2-8 positions, 40-300 A				
Temperature						
Ambient Temperature Range (full power)		-40°F to +122°F (-40°C to +50°C)				
Storage Temperature Range		-40°F to +158°F (-40°C to +70°C)				
Relative Humidity (non-condensing)		0-95%				
Monitoring Options						
Web-based Monitoring (Inverter Direct)		SolrenView				
Revenue Grade Monitoring		External				
Sub-Array Monitoring (SolZone)		2-8 zones				
Cellular Communication		SolrenView AIR				
Third Party Compatibility		Standard via MODBUS				
Certifications						
Safety Listings & Certifications		UL 1741/IEEE 1547, IEEE 1547.1, IEEE 62.41.2, IEEE 62.45, IEEE C37.90.2, 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						
Transformer		Standard, fully-integrated (internal)				
AC/DC Disconnects		Standard, fully-integrated				
Dimensions 208/240 VAC (H x W x D) - Side Facing Disconnects		76 in. x 54 in. x 29.25 in. (1930 mm x 1372 mm x 743 mm)				
Dimensions 480/600 (H x W x D) - Side Facing Disconnects		76 in. x 53 in. x 29.25 in. (1930 mm x 1338 mm x 743 mm)				
Dimensions 208/240 VAC (H x W x D) - Forward Facing Disconnects		76 in. x 89 in. x 29.25 in. (1930 mm x 2246 mm x 743 mm)				
Dimensions 480/600 (H x W x D) - Forward Facing Disconnects		76 in. x 81 in. x 29.25 in. (1930 mm x 2044 mm x 743 mm)				
Weight		1545 lbs (700 kg)		1765 lbs (800 kg)		
Enclosure Rating		NEMA 3R				
Enclosure Finish		Polyester powder coated steel; Optional stainless steel				