

STRING INVERTERS

PVI 3000
PVI 4000
PVI 5000
PVI 5300
PVI 6500
PVI 7500

FEATURES

- 96% CEC efficiency
- Wide input operating voltage window
- 208 VAC, 240 VAC or 277 VAC
- Fully-integrated design
- Detachable wiring box
- Standard 10 year warranty
- RS232/RS485 communications
- User interactive LCD display

OPTIONS

- Integrated panel assembly
- Web-based monitoring



STRING INVERTERS

At 96% CEC efficiency, the Solectria Renewables string inverter series, ranging from 3.0 kW to 7.5 kW, is the most efficient transformer isolated string inverter on the market. The PVI 3000-PVI 7500 series of inverters consist of six power ratings to optimally match your grid-tied PV system, and boasts fully-integrated DC and AC disconnects, an LCD display, and a 3, 4, or 5 fuse string combiner all contained within a detachable wiring box. This feature allows for a clean, simple, and safe installation with easy serviceability. The integrated panel assembly option allows for this inverter series to be pre-wired and mounted on an industrial grade aluminum panel with kWh meter and optional AC visible-blade disconnect or circuit breakers on a two-inverter panel assembly.



Built for the real world

SPECIFICATIONS		PVI 3000	PVI 4000	PVI 5000	PVI 5300	PVI 6500	PVI 7500	
DC Input								
Absolute Maximum Input Voltage		600 VDC						
MPPT Input Voltage Range		200-550 VDC			230-500 VDC			
Maximum Operating Input Current		16 A	20 A	25 A	25 A	35 A	35 A	
AC Output								
Nominal Output Voltage		208 or 240 VAC			208, 240 or 277 VAC			
AC Voltage Range (Standard)		-12%/+10%						
Continuous Output Power	208 VAC	2700W	3400W	4300W	4600W	6500 W	7500 W	
	240 VAC	2900W	3900W	4900W	5300W	6500 W	7500 W	
	277 VAC	--			6500 W			7500 W
Continuous Output Current	208 VAC	13 A	16.3 A	20.7 A	22.1 A	31.3 A	36.1 A	
	240 VAC	13 A	16.3 A	20.7 A	22.1 A	27.1 A	31.3 A	
	277 VAC	--			23.5 A			27.1 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	96.4%	96.5%	96.4%	96.2%	96.0%	96.2%	
	240 VAC	96.7%	96.7%	96.7%	96.4%	96.3%	96.5%	
	277 VAC	--			96.7%		96.7%	
CEC Efficiency	208 VAC	95.5%	95.5%	96.0%	95.5%	95.5%		
	240 VAC	96.0%	96.0%	96.0%	96.0%	96.0%		
	277 VAC	--			96.0%			
Tare Loss		0.5 W						
Integrated String Combiner								
Fused String Inputs		3	4	4	4	5	5	
Temperature								
Ambient Temperature Range (full power)		-13°F to +131°F (-25°C to +55°C)					-13°F to +122°F (-25°C to +50°C)	
Storage Temperature Range		-13°F to +131°F (-25°C to +55°C)				-13°F to +149°F (-25°C to +65°C)		
Relative Humidity (non-condensing)		5-95%						
Monitoring Options								
Web-based Monitoring (Inverter Direct)		SolrenView						
Revenue Grade Monitoring		External						
Third Party Compatibility		Standard via RS232/RS485						
Testing & Certifications								
Safety Listings & Certifications		UL 1741/IEEE 1547, IEEE 1547.1, CSA C22.2#107.1, FCC part 15 B						
Testing Agency		ETL						
Warranty								
Standard		10 year						
Enclosure								
AC/DC Disconnects		Standard, fully-integrated (internal)						
Dimensions (H x W x D)		28.8 in x 17.9 in x 6.9 in (732 mm x 454 mm x 175 mm)		28.8 in x 17.9 in x 8.3 in (732 mm x 454 mm x 210 mm)		28.8 in x 17.3 in x 8.2 in (732 mm x 438 mm x 208 mm)		
Weight		47 lbs (21.4 kg)	48 lbs (21.8 kg)	58.5 lbs (26.6 kg)	60 lbs (27.4 kg)	88.9 lbs (40.4 kg)		
Enclosure Rating		NEMA 3R						
Enclosure Finish		Painted aluminum						