



PVI 3800TL
PVI 5200TL
PVI 6600TL
PVI 7600TL

FEATURES

- 600 VDC
- Highest industry peak and CEC efficiencies
- Lightweight, compact design - smallest in the industry
- Quick and easy installation
- Wide operating voltage range
- DC disconnect
- Passive cooling
- DC arc-fault detection and interrupt

OPTIONS

- Rapid shutdown combiner
- Web-based monitoring
- Revenue grade metering

1-PH TRANSFORMERLESS STRING INVERTERS

Yaskawa - Solectria Solar's PVI 3800TL, PVI 5200TL, PVI 6600TL, and PVI 7600TL are compact, transformerless, single-phase inverters with the highest peak and CEC efficiencies in the industry. These inverters come standard with an integrated DC disconnect, DC arc-fault detection and interrupt, 1 or 2 MPP tracker(s), and a user-interactive LCD and keypad. Their small and lightweight design make for quick and easy installation and maintenance. They have an innovative passive cooling design which eliminates the need for fans in the inverter. These inverters include an enhanced DSP control, comprehensive protection functions, and advanced thermal design enabling highest reliability and uptime. Any PVI 3800-7600TL may be purchased with our Rapid Shutdown Combiner to comply with NEC 2014.



SPECIFICATIONS		PVI 3800TL	PVI 5200TL	PVI 6600TL	PVI 7600TL
DC Input					
Absolute Maximum Open Circuit Voltage		600 VDC			
Operating Voltage Range		120-550 VDC			
MPPT Input Voltage Range		200-500 VDC			
MPP Trackers		1	2		
Maximum Operating Input Current		20 A	15 A per MPPT	18 A per MPPT	20 A per MPPT
Maximum Input Short Circuit Current (Isc x 1.25)		24 A	48 A (24 A per MPPT)		
Maximum PV Power (per MPPT)		5.32 kW	3.64 kW	4.62 kW	5.32 kW
Start Voltage		150 V			
AC Output					
Nominal Output Voltage		208 or 240 VAC, 1Ø+/PE			
AC Voltage Range		-12%/+10%			
Continuous Output Power	208 VAC	3328 W	5000 W	6600 W	6656 W
	240 VAC	3800 W	5200 W	6600 W	7600 W
Maximum Continuous Output Current		16 A	24 A	32 A	
Maximum Backfeed Current		0 A			
Nominal Output Frequency		60 Hz			
Output Frequency Range		59.3-60.5 Hz			
Power Factor		Unity, > 0.99			
Fault Current Contribution (RMS)		4.7 A	11.8 A		
Total Harmonic Distortion (THD) @ Rated Load		< 3%			
Performance					
Peak Efficiency		98.3%			
CEC Efficiency		97.5%			
Tare Loss		< 2 W			
Ambient Temperature Range (full power)		-13°F to +122°F (-25°C to +50°C)			
Storage Temperature Range		-40°F to +185°F (-40°C to +85°C)			
Relative Humidity (non-condensing)		0-100%			
Audible Noise		< 45 dBA @ 3 m			
Operating Altitude		6,562 ft/2000 m			
Safety Listings & Certifications		UL 1741/IEEE 1547, UL 1699B, CSA C22.2#107.1, FCC part 15 A&B			
Testing Agency		CSA			
Mechanical					
DC Disconnect		Standard, fully-integrated			
Dimensions (H x W x D)		17.5 x 15.8 x 8.5 in. (445 x 402 x 216 mm)	26.8 x 15.8 x 8.5 in. (681 x 402 x 216 mm)		
Weight		43 lbs (19.5 kg)	65 lbs (29.5 kg)		
Enclosure Rating		Type 4 + Salt Mist Corrosion Protection			
Enclosure Finish		Aluminum			
Communications					
Data Logger Hardware		Optional, External			
SolrenView Monitoring Service		Optional			
Revenue Grade Meter/Monitoring		Optional, External			
Communication Interface		RS-485			
Warranty					
Standard		10 year			
Optional		Extended warranty not available			

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