

PVI 23TL & PVI 28TL

3-Ph Transformerless Commercial String Inverters

Features

- 1000 VDC
- Best in class efficiency
- Touch-safe fuses
- Dual & wide MPP tracking zones
- Modbus communications
- Integrated DC fused string combiner
- DC arc-fault protection

Options

- Web-based monitoring
- Shade cover
- DC/AC disconnect covers
- Roof mount array brackets
- DC combiners bypass



Yaskawa Solectria Solar's PVI 23TL and PVI 28TL are compact, transformerless three-phase inverters with a dual MPP tracker. These inverters come standard with AC and DC disconnects, user-interactive LCD, and an integrated fused string combiner. Their small, lightweight design makes for quick and easy installation and maintenance. These inverters include an enhanced DSP control, comprehensive protection functions, and advanced thermal design enabling highest reliability and uptime. They also come with a standard 10 year warranty. Options include web-based monitoring, shade cover, DC/AC disconnect covers, DC combiners bypass, and roof mount array bracket.

PVI 23TL & 28TL

Specifications

	PVI 23TL	PVI 28TL
DC Input		
Absolute Maximum Input Voltage	1000 VDC	1000 VDC
Maximum Power Input Voltage Range (MPPT)	480-800 VDC	500-800 VDC
Operating Voltage Range (MPPT)	240-950 VDC	240-950 VDC
MPP Trackers	2 with 4-fused inputs per tracker	2 with 4-fused inputs per tracker
Maximum Operating Input Current	25 A per MPPT (50 A)	29 A per MPPT (58 A)
Maximum Available PV Current (Isc x 1.25)	41 A per MPPT (82 A)	48 A per MPPT (96 A)
Maximum PV Power (per MPPT)	15.5 kW	19 kW
Strike Voltage	330 V	330 V
AC Output		
Nominal Output Voltage	480 VAC, 3-Ph	480 VAC, 3-Ph
AC Voltage Range	-12/+10%	-12/+10%
Continuous Output Power	23 kW	28 kW
Maximum Output Current	27.7 A	33.7 A
Maximum Backfeed Current	0 A	0 A
Nominal Output Frequency	60 Hz	60 Hz
Output Frequency Range	59.3-60.5 Hz (adjustable 55-65 Hz)	59.3-60.5 Hz (adjustable 55-65 Hz)
Power Factor	Unity, >0.99 (±0.8 adjustable)	Unity, >0.99 (±0.8 adjustable)
Total Harmonic Distortion (THD) @ Rated Load	<3%	<3%
Grid Connection Type	3-Ph + N/GND (4-wire)	3-Ph + N/GND (4-wire)
Efficiency		
Peak Efficiency	98.6%	98.6%
CEC Efficiency	98.0%	98.0%
Tare Loss	2 W	2 W
Integrated String Combiner		
Fused Positions	8 fused positions (4 positions per MPPT) 15 A (fuse by-pass available)	
Temperature		
Ambient Temperature Range	-22°F to +140°F (-30°C to +60°C); Derating occurs over +113°F (+45°C)	
Storage Temperature Range	No low temp minimum to +158°F (+70°C)	
Relative Humidity (non-condensing)	0-95%	
Operating Altitude	13,123 ft (4,000 m); Derating occurs from 6,562 ft (2,000 m)	
Data Monitoring		
SolrenView Web-Based Monitoring	Optional, External	
Revenue Grade Monitoring	Optional, External	
External Communication Interface	RS-485 Modbus RTU	
Testing & Certifications		
Safety Listings & Certifications	UL 1741 / IEEE 1547, CSA C22.2#107.1, FCC part 15 B	
Testing Agency	CSA	
Warranty		
Standard Limited Warranty	10 Years	
Enclosure		
dBA (Decibel) Rating	< 50 dBA @ 3 m	
DC Disconnect	Standard, fully-integrated	
Mounting Angle/Installation Angle	15° to 90° measured from horizontal	
Dimensions (H x W x D)	39.4 in. x 23.6 in. x 9.1 in. (1001 x 600 x 232 mm)	
Weight	104 lbs (47.2 kg)	
Enclosure Rating	Type 4X	
Enclosure Finish	Polyester Powder Coated Aluminum	

SOLECTRIA SOLAR

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