

PVI 14TL

3-Ph Transformerless String Inverters

Features

- 600 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 14TL is compact, transformerless three-phase inverters with a dual MPP tracker. This inverter comes standard with AC and DC disconnects, user-interactive LCD, and an integrated fused string combiner. Its small, lightweight design makes for quick and easy installation and maintenance. This inverter includes an enhanced DSP control, comprehensive protection functions, and advanced thermal design enabling highest reliability and uptime. The PVI 14TL also comes 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.

Specifications

		PVI 14TL
DC Input		
Absolute Maximum Open Circuit Voltage		600 VDC
Operating Voltage Range		180-580 VDC
Max Power Input Voltage Range (MPPT)		300-540 VDC
MPP Trackers		2 with 4-fused inputs per tracker
Maximum Operating Input Current		25 A per MPPT (50 A)
Maximum Available PV Current (Isc x 1.25)		45 A per MPPT (90 A)
Maximum PV Power (per MPPT)		9.5 kW
Strike Voltage		300 V
AC Output		
Nominal Output Voltage		208 VAC, 3-Ph
AC Voltage Range (Standard)		-12%/+10%
Continuous Output Power		14 kW
Maximum Output Current		39 A
Maximum Backfeed Current		0 A
Nominal Output Frequency		60 Hz
Output Frequency Range		59.3-60.5 Hz (adjustable 55-65 Hz)
Power Factor		Unity, >0.99 (±0.8 adjustable)
Fault Current Contribution (1 Cycle RMS)		70.4 A
Total Harmonic Distortion (THD) @ Rated Load		< 3%
Grid Connection Type		3ø+N/GND (4-wire)
Efficiency		
Peak Efficiency		96.7%
CEC Efficiency		96.0%
Tare Loss		4 W
Integrated String Combiner		
Fused Positions		8 fused positions (4 positions per MPPT) 15 A (fuse by-pass available)
Temperature		
Ambient Temperature Range		-13°F to +140°F (-25°C to +60°C) Derating occurs over +50°C
Storage Temperature Range		-22°F to +158°F (-30°C to +70°C)
Relative Humidity (non-condensing)		0-95%
Operating Altitude		13,123 ft/4,000 m (derating 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
Testing Agency		ETL
FCC Compliance		FCC part 15 B
Warranty		
Standard Limited Warranty		10 Years
Enclosure		
Acoustic Noise Rating		< 50 dBA @ 3 m
AC/DC Disconnect		Standard, fully-integrated
Dimensions (H x W x D)		41.6 in. x 21.4 in. x 8.5 in. (1057 mm x 544 mm x 216 mm)
Weight		141 lbs (64 kg)
Enclosure Rating and Finish		Type 4, Polyester Powder-Coated Aluminum

Specifications subject to change.