



PVI 14TL

PVI 20TL

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

3-PH TRANSFORMERLESS STRING INVERTERS

Yaskawa - Solectria Solar's PVI 14TL and PVI 20TL 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. Its 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 with options for 15 and 20 years. Options include web-based monitoring, shade cover, DC/AC disconnect covers, DC combiners bypass, and roof mount array bracket.



SPECIFICATIONS	PVI 14TL	PVI 20TL
DC Input		
Absolute Maximum Open Circuit Voltage	600 VDC	
Operating Voltage Range	180-580 VDC	260-580 VDC
Max Power Input Voltage Range (MPPT)	300-540 VDC	300-550 VDC
MPP Trackers	2 with 4-fused inputs per tracker	
Maximum Operating Input Current	25 A per MPPT (50 A)	35 A per MPPT (70 A)
Maximum Available PV Current (Isc x 1.25)	45 A per MPPT (90 A)	45.5 A per MPPT (91 A)
Maximum PV Power (per MPPT)	9.5 kW	13.5 kW
Strike Voltage	300 V	
AC Output		
Nominal Output Voltage	208 VAC, 3-Ph	480 VAC, 3-Ph
AC Voltage Range (Standard)	-12%/+10%	
Continuous Output Power	14 kW	20 kW
Maximum Output Current	39 A	24 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)	Unity, >0.99 (±0.9 adjustable)
Fault Current Contribution (1 Cycle RMS)	70.4 A	43.3 A
Total Harmonic Distortion (THD) @ Rated Load	< 3%	
Grid Connection Type	3ø+/N/GND (4-wire)	
Efficiency		
Peak Efficiency	96.7%	97.4%
CEC Efficiency	96.0%	97.0%
Tare Loss	4 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	-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, FCC part 15 B	
Testing Agency	ETL	
Warranty		
Standard	10 year	
Optional	15, 20 year; extended service agreement	
Enclosure		
dBA (Decibel) 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)	132 lbs (60 kg)
Enclosure Rating	Type 4	
Enclosure Finish	Polyester powder coated aluminum	

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