

3-PH TRANSFORMERLESS STRING INVERTERS

PVI 14TL
PVI 20TL
PVI 23TLM
PVI 28TLM

FEATURES

- 600 or 1000 VDC
- Best-in-class efficiency
- Three-phase transformerless inverters
- Quick and easy installation
- Dual MPP tracking zones
- Wide MPPT range
- Lightweight, compact design
- Modbus communications
- User-interactive LCD
- Wall mount configuration

OPTIONS

- Integrated DC fused string combiner
- DC arc-fault protection
- Web-based monitoring



3-PH TRANSFORMERLESS STRING INVERTERS

Solectria Renewables' PVI 14TL, PVI 20TL, PVI 23TLM, and PVI 28TLM are compact, transformerless three-phase inverters with a dual MPP tracker. These inverters come standard with AC and DC disconnect, user-interactive LCD and 8-fuse string combiner. Its small and lightweight design make 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.



Built for the real world

SPECIFICATIONS	PVI 14TL	PVI 20TL	PVI 23TLM	PVI 28TLM
DC Input				
Absolute Maximum Open Circuit Voltage	600 VDC		1000 VDC	
Operating Voltage Range	180-580 VDC	260-580 VDC	300-900 VDC	
MPPT Input Voltage Range	300-540 VDC	300-550 VDC	480-800 VDC	500-800 VDC
MPP Trackers	2 with 4-fused inputs per tracker			
Maximum Operating Input Current	2x 25A	2x 35A	2x 27 A	2x 32 A
Strike Voltage	300 V		330 V	
AC Output				
Nominal Output Voltage	208 VAC, 3-Ph	480 VAC, 3-Ph		
AC Voltage Range (Standard)	-12%/+10%			
Continuous Output Power (VAC)	14 kW	20 kW	23 kW	28 kW
Continuous Output Current (VAC)	39 A	27.3 A	32 A	39 A
Maximum Backfeed Current	0 A			
Nominal Output Frequency	60 Hz			
Output Frequency Range	57-63 Hz	59.3-60.5 Hz	57-63 Hz	
Power Factor	Unity, >0.99			
Total Harmonic Distortion (THD)	< 3%			
Efficiency				
Peak Efficiency	96.7%	97.3%	98.4%	
CEC Efficiency	96.0%	96.5%	98.0%	
Tare Loss	< 2 W			
Integrated String Combiner				
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		-13°F to +140°F (-25°C to +60°C) Derating occurs over +45°C	
Storage Temperature Range	-22°F to +158°F (-30°C to +70°C)			
Relative Humidity (non-condensing)	0-95%			
Data Monitoring				
Optional SolrenView Web-based Monitoring	Integrated			
Optional Revenue Grade Monitoring	External			
External Communication Interface	RS485 Modbus RTU			
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			
Optional	15, 20 year; extended service agreement			
Enclosure				
AC/DC Disconnect	Standard, fully-integrated			
Dimensions (H x W x D)	41.6 x 21.4 x 8.5 in. (1057 x 543 x 216 mm)		39.4 x 23.6 x 9.1 in. (1000 x 600 x 230 mm)	
Weight	141 lbs (64 kg)	132 lbs (60 kg)	122 lbs (55 kg)	
Enclosure Rating	Type 4			
Enclosure Finish	Polyester powder coated aluminum			



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