

PVI 36TL

3-Ph Transformerless Commercial String Inverter

Features

- 1000 VDC
- Best-in-class efficiency
- Touch-safe fuses
- Dual & wide MPP tracking zones
- SunSpec Modbus compliant
- Integrated DC fused string combiner
- DC arc-fault protection
- UL1741SA listed

Options

- Web-based monitoring
- Shade cover
- DC combiner bypass



Yaskawa Solectria Solar's PVI 36TL is a compact, transformerless three-phase inverter with a dual MPP trackers. 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. It also comes with a standard 10 year warranty. Options include web-based monitoring, shade cover, and DC combiner bypass. The PVI 36TL is certified as a PV Rapid Shutdown System with the Tigo TS4-A-F (ver 6.7+). Tigo's RSS Transmitter Kit is available from all Tigo distributors.

Specifications

		PVI 36TL
DC Input		
Absolute Maximum Input Voltage		1000 VDC
Maximum Power Input Voltage Range (MPPT)		540-800 VDC
Operating Voltage Range (MPPT)		240-950 VDC
MPP Trackers		2 with 5-fused inputs per tracker
Maximum Operating Input Current		35 A per MPPT (70 A)
Maximum Available PV Current (Isc x 1.25)		62.5 A per MPPT (125 A)
Maximum PV Power (per MPPT)		27 kW
Strike Voltage		320 V, 80 W
AC Output		
Nominal Output Voltage		480 VAC, 3-Ph
AC Voltage Range		-12/+10%
Continuous Output Power		36 kW
Maximum Output Current		43.5 A
Nominal Output Frequency		60 Hz
Output Frequency Range		57-63 Hz
Power Factor		Unity, >0.99 (±0.8 adjustable)
Total Harmonic Distortion (THD) @ Rated Load		<3%
Grid Connection Type		3-Ph + N/GND (4-wire)
Efficiency		
Peak Efficiency		98.5%
CEC Efficiency		98.0%
Tare Loss		< 1 W
Integrated String Combiner		
Fused Positions		10 fused positions (5 positions per MPPT) 20 A
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 - 100%
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
Communication Interface		RS-485 Modbus RTU
Modbus Protocol		SunSpec
Testing & Certifications		
Safety Listings & Certifications		UL 1741 / IEEE 1547, CSA C22.2#107.1, FCC Part 15 (Subpart B, Class A)
Advanced Grid Support Functionality		UL 1741SA - 2016
Testing Agency		CSA
Warranty		
Standard Limited Warranty		10 Years
Enclosure		
dBA (Decibel) Rating		< 50 dBA @ 1m and 25°C
DC Disconnect		Standard, fully-integrated
Mounting Angle/Installation Angle		15° to 90° measured from horizontal
Dimensions (H x W x D)		Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box: 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)
Weight		Power Unit: 121 lbs (55 kg), Wirebox: 24 lbs (11 kg)
Enclosure Rating		Type 4X
Enclosure Finish		Polyester Powder Coated Aluminum