

PVI 36TL-480

3-PHASE 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
- PVRSS Certified Rapid Shutdown Ready with Tigo Energy

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



PVI 36TL DESIGN

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 and it 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.



PVI 36TL-480 TECHNICAL DATA

SPECIFICATIONS

PVI 36TL-480 Transformerless Commercial String Inverter		
DC Input	Maximum PV Power	54 kW (27 kW per MPPT)
	Maximum Input Voltage	1000 VDC
	DC Voltage Ranges: Operating / Maximum Power (MPPT)	240-950 VDC / 540-800 VDC
	Start-up DC Input Voltage / Power	320 V / 80 W
	Maximum Available PV Current (Isc x 1.25)	125 A (62.5 A per MPPT)
	Maximum Operating Input Current (clipping point)	70 A (35 A per MPPT)
AC Output	DC Surge Protection	Type II MOV, 2000V _{DC} , 10kA I _{TM} (8/20 μs)
	Rated AC Real Power / Apparent Power / Output Current	36 kW / 36 kVA / 43.5 A
	Nominal Output Voltage / Range	480 VAC / -12% to +10%
	Nominal Output Frequency / Range	60 Hz / 57-63 Hz
	Power Factor	Unity, > 0.99 (Adjustable 0.8 leading to 0.8 lagging)
	Fault Current Contribution (1 Cycle RMS)	73.2 A
	Total Harmonic Distortion (THD) @Rated Load	< 3%
	Grid Connection Type	3-Ph/PE/N (neutral conductor optional)
Efficiency	Maximum OCPD Device	65 A
	AC Surge Protection	Type II MOV, 1500V _{DC} , 10kA I _{TM} (8/20 μs)
	Peak Efficiency	98.5%
Wirebox	CEC Efficiency	98.0%
	Tare Loss	< 1 W
Environment	Fused Positions	10 fused positions (5 positions per MPPT) 20A included (25 A, 30 A accepted)
	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%
Communications	Operating Altitude	13,123 ft (4,000 m); Derating occurs from 6,562 ft (2,000 m)
	SolrnView Web-Based Monitoring	Optional, External
	Revenue Grade Monitoring	Optional, External
	Communications Interface	RS-485 Modbus RTU
	Modbus Protocol	SunSpec
	Remote Firmware Upgrades	Ethernet network card required
Safety	Remote Diagnostics	Ethernet network card required
	Certifications and Standards	UL1741-SA, UL1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE1547, FCC Part 15 (Subpart B, Class A)
	Selectable Grid Standards	IEEE 1547, CA Rule 21
Warranty	Smart-Grid Features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt
	Standard Limited Warranty	10 Years
Mechanical	Acoustic Noise Rating	< 50 dBA @ 1m and 25°C
	AC/DC Disconnect	Standard, fully-integrated, load break rated
	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); Wirebox: 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	NEMA Type 4X
	Enclosure Finish	Polyester Powder Coated Aluminum

IT'S PERSONAL