PVI 25TL-480

3-PHASE TRANSFORMERLESS COMMERCIAL STRING INVERTER

FEATURES

- 1000 VDC
- UL 1741SA listed
- 2 MPPTs with 3 inputs each
- Integrated DC and AC disconnects
- AC terminals compatible with copper and aluminum conductors
- SunSpec Modbus compliant
- 15 90° installation orientation
- Remote diagnostics
- Built-in SunSpec compliant transmitter for Module-Level Rapid Shutdown
- Inverter models listed as PV Rapid Shutdown Systems with devices from Tigo Energy and APsmart
- LED indicator lights
- Yaskawa Connect Pro app for system visibility

OPTIONS

- · Web-based monitoring
- Shade cover
- 15° rooftop mounting rack
- Rooftop Mounting Kit includes support legs for a 15° tilt angle and shade cover (not depicted)



Yaskawa Solectria Solar's PVI 25TL-480 is a state-of-the-art compact 3-phase string inverter, ideal for rooftops, carports and ground-mount PV systems.



PVI 25TL-480 DESIGN

The PVI 25TL-480 comes standard with AC and DC disconnects, two MPPTs, and a wiring box with six fuse positions for the positive conductors (compliant with the 2017 and 2020 NEC).

For rooftop PV systems, both wirebox models provide PV Rapid Shutdown System (PVRSS) compliance and include a built-in SunSpec compliant powerline communication transmitter. One wirebox model is Tigo Enhanced for rapid shutdown and the other wirebox model is compatible with APsmart rapid shutdown devices.

Yaskawa Solectria Solar also offers its Roof-Mounting Kit, to simplify installation on rooftops. Yaskawa Solectria Solar's family of PVI 25TL-480 inverter models provides flexibility and convenience unmatched in the industry







SPECIFICATIONS

PVI 25TL-480 Commercial Transformerless String Inverter				
DC Input	Maximum PV Power	37.5 kW (22 kW per MPPT)		
	Maximum Input Voltage	1000 VDC		
	DC Voltage Ranges: Operating / Maximum Power (MPPT)	200 - 950 VDC / 560 - 850 VDC		
	Start-up DC Input Voltage / Power	330 V / 80 W		
	Maximum Available PV Current (Isc x 1.25)	90 A (45 A per MPPT)		
	DC Surge Protection	Type II MOV, 1240 V_{C} , 15 kA I_{TM} (8/20 μ s)		
AC Output	Rated AC Real Power / Apparent Power / Output Current	25 kW / 25 kVA / 30.5 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)	28.2 A		
	Total Harmonic Distortion (THD) @Rated Load	< 3%		
	Grid Connection Type	3-Ph/PE/N (neutral conductor optional)		
	Maximum OCPD Device	50 A		
	AC Surge Protection	Type II MOV, 1025 V _C , 15 kA I _{TM} (8/20 μs)		
	Peak Efficiency	98.5%		
Efficiency	CEC Efficiency	98.0%		
	Tare Loss	<1W		
Environment	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; up to +158°F (+70°C)		
Environment	Relative Humidity (non-condensing)	0-100%		
	Operating Altitude	13,123 ft (4,000 m); Derating occurs from 9,842.5 ft (3,000 m)		
	Modbus Protocol	Proprietary / SunSpec		
	SolrenView Web-Based Monitoring Service	Optional		
Communications	Revenue Grade Metering	Optional, External		
Communications	Communication Interface	LED Display, Yaskawa Connect Pro app (Wi-Fi)		
	Remote Firmware Upgrades	Ethernet Network Card required		
	Remote Diagnostics	Ethernet Network Card required		
Safety	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, ISO-NE		
	Smart Grid Features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt		
Warranty	Standard Limited Warranty	10 Years		
Mechanical	Acoustic Noise Rating	< 50 dBA @ 1 m at 25°C		
	AC/DC Disconnect	Standard, fully-integrated		
	Mounting Angle	15-90° from horizontal (angled to vertical)		
	Dimensions (H x W x D)	Power Head: 15.95 in. x 15.75 in. x 7.875 in (405 mm x 400 mm x 200 mm) Wirebox: 10.24 in. x 15.75 in. x 7.875 in (260 mm x 400 mm x 200 mm)		
	Weight	Power Head: 48.5 lbs (22 kg); Wirebox: 13.2 lbs (6 kg)		
	Enclosure Rating and Finish	NEMA Type 4X; Polyester Powder Coated Aluminum		

Wirebox Specifications					
Wirebox Fuse Configuration		6 Fused Positions (3 Positions per MPPT), 20A Fuses Standard (25, 30A accepted) **			
Wirebox Versions	APsmart Transmitter Built-In	Inverter Model: PVI-25TL-480-APS20 (only positive polarity fused)	MLRSD Compatibility: APsmart RSD-S and RSD-D		
	Tigo Transmitter Built-In	Inverter Model: VI-25TL-480-TGO20 (only positive polarity fused)	MLRSD Compatibility: Tigo TS4-A-F (ver 6.7+) and TS4-A-2F		

^{*} Please inquire at inverters@solectria.com for more information ** Yaskawa Solectria Solar does not supply optional fuse sizes





