SOLECTRIA® PVI-25TL-480

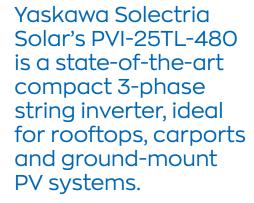
3-PHASE TRANSFORMERLESS COMMERCIAL STRING INVERTER

FEATURES

- 1000 VDC
- Certified to IEEE 1547-2018 and UL 1741SB
- 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
- UL Listed as PV Rapid Shutdown Systems with APsmart and Northern Electric Power (NEP)
- LED indicator light
- Yaskawa Connect Pro app for system visibility
- Compatible with Bifacial PV Modules

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)





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, the wirebox provides RV Rapid Shutdown System (PVRSS) compliance with a built-in SunSpec compliant powerline communication transmitter, 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







SOLECTRIA® PVI-25TL-480 TECHNICAL DATA

SPECIFICATIONS

PVI-25TL-480 Commercial Transformerless String Inverter					
(Listing File Model: PVI25TL-480-R)					
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			
	Number of MPPT Trackers / Inputs	2 Trackers / 3 Fused-Inputs each			
	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)			
	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)			
AC Output	Fault Current Contribution (1 Cycle RMS)	31 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 μ s)			
Efficiency	Peak Efficiency	98.5%			
	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			
	Communication Interface	LED Display, Yaskawa Connect Pro app (Bluetooth®)			
	Remote Firmware Upgrades	Ethernet Network Card required			
	Remote Diagnostics	Ethernet Network Card required			
Safety	Certifications and Standards	IEEE 1547-2018, UL 1741-SB, UL1741-SA, UL1699B, UL1998, CSA-C22.2 NO.107.1-01, 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, Watt-VAr			
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	

^{*} Please inquire at sales@solectria.com for more information

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^{**} Yaskawa Solectria Solar does not supply optional fuse sizes