



Solar inverter PVS-10/12.5/15-TL

The PVS-10/12.5/15-TL is the new FIMER three-phase solution, ideal for the optimization of installation and operational costs in commercial and industrial PV plants.

From 10 to 15 kW

This new PVS string inverter family, with power ratings of up to 15 kW, has been designed with the objective to maximize the ROI in commercial and industrial applications such as rooftop plants, carports and trackers.

Ease of installation and maintenance

The compact design of the product allows savings on installation costs. The installation is quick and easy, without the need to open the front cover.

Moreover, being fuse-free, this inverter guarantees further savings on maintenance costs and time, reducing on site interventions to a minimum.

Maximum flexibility and integration

The input voltage range and connection systems guarantee inverter flexibility and make it suitable for both new and existing installations

This new inverter family guarantees maximum integration with the latest PV technologies, including bifacial modules.

Advanced communication

Fast commissioning thanks to the Solar Inverters installer app which enable a quick multi-inverter installation, saving up to 70% commissioning time.

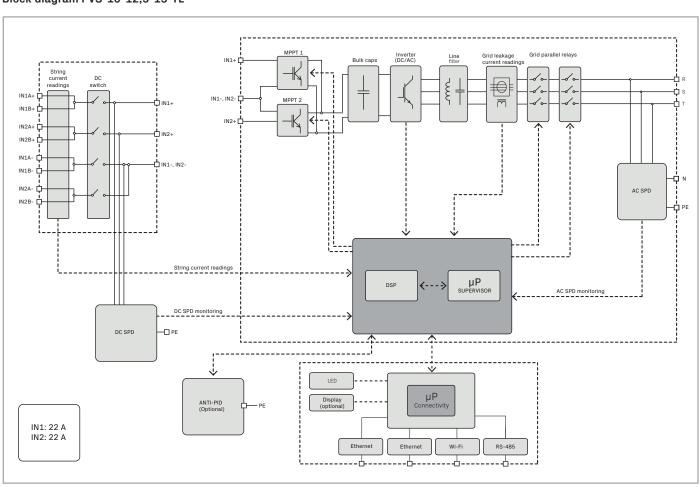
The single string current monitoring allows to keep the status of the PV generator under control and to detect potential faults in real time.

The built-in FIMER Export Limitation solution allows to comply with any power export constraints established by utilities, without any additional devices to be installed.

Highlights

- Compact inverter suitable for vertical installation
- Fuse-free design
- Installation on new and existing plants
- Maximum string voltage 1100 Vdc
- PID prevention function (optional)
- · Commissioning through the Solar Inverters installer app
- Integrated Export Limitation function
- · Single string current monitoring
- Arc fault detection system (optional)

Block diagram PVS-10-12,5-15-TL



Type code	PVS-10-TL	PVS-12.5-TL	PVS-15-TL
Input side			
Absolute maximum DC input voltage (V _{max,abs})		1100 V	
Start-up DC input voltage (V _{start})			
Operating DC input voltage range (VdcminVdcmax)			
Rated DC input voltage (V _{dcr})		620V	
Rated DC input power (Pdcr)	10200 W		15300 W
Jumber of independent MPPT	10200 11		
Maximum photovoltaic power recommended (Ppv.max)	14500 Wp	18125 Wp	21750 Wp
Maximum DC input power for each MPPT (PMPPT, Tmax)		8300W	
MPPT input DC voltage range (VMPPTmin VMPPTmax) a Pacr		460-850V	
Maximum DC input current (Idomax) for each MPPT	2x17A	2x18A	2x22A
Maximum input short circuit current for each MPPT		30 A	
Number of DC input pairs for each MPPT		2	-
DC connection type		PV quick fit connecto	
Input protection		Von from limit	ourse
Revers polarity protection			
nput over voltage protection for each MPPT			
solation control		According to local stand	
Output side		Throo phago (2W) DE or 4)	M - DE)
C grid connection type	TNI C TNI C TNI CC TT	Three-phase (3W+PE or 4)	-
earthing system			
ated AC power (P _{acr} @cosφ=1)	10000 W	12500 W	15000 W
Maximum AC output power (Pacmax @cosφ=1)	10000 W		
Maximum apparent power (S _{max})	10000 VA		15000 VA
Maximum reactive power (Q _{max})			
Jominal power factor and adjustable range	> 0.995; 0,81 inductive/capacitive		
Rated AC output voltage (Vac.r)			
Maximum AC output current (Iac.max)	16 A	20 A	23 A
Rated output frequency (fr)	50 Hz / 60 Hz 4753 Hz / 5763 Hz ²⁾		
Output frequency range (fminfmax)	4753 HZ 7 5753 HZ ~7		
Total current harmonic distortion	16 mm² copper		
Maximum AC cable	AC quick fit connector		
C connection type		AC quick fit connecto	
Output protection Inti-islanding protection		According to local stanc	dard
Anti-islanding protection Assimum external AC overcurrent protection	25 A	32 A	
		SPD Type II	
Output overvoltage protection		SPU Type II	
Operating performance	00.40/	00.59/	00 50/
Maximum efficiency (ηmax)	98,4%	98,5%	98,5%
Neighted efficiency (EURO)	98,1%	98,2%	98,2%
Communication		Double Etherent - 1 14/1 Av. S	ICAGE port
Embedded communication interfaces	Double Ethernet port, WLAN, RS485 port		
Communication protocol	Modbus TCP Sunspec, Modbus RTU Sunspec		
Local user interface	LEDs, Web User Interface, Installer APP, Display (optional) Aurora Vision® Plant Management Platform, Rest API		

PVS-10-TL-SY

1) The output voltage range may vary depending on specific country grid standards

2) The output frequency range may vary depending on specific country grid standards

Remark. Features not specifically listed in the present data sheet are not included in the product

PVS-15-TL-SY

PVS-12.5-TL-SY



and Type 2 on the AC side



