





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.

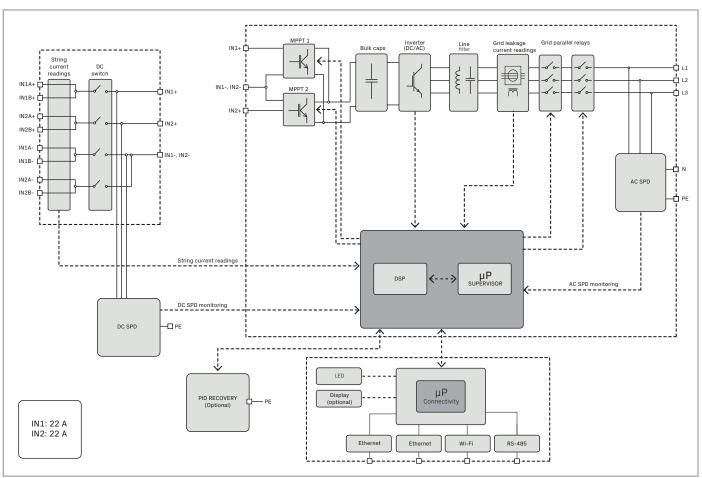
The single string current monitoring allows to keep the status of the PV generator under control and to detect potential faults in real time.

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 recovery 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



Fechnical data and types				
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})	250500V (default 360V)			
Operating DC input voltage range (V _{dcmin} V _{dcmax})	200-1000 V			
Rated DC input voltage (Vdcr)		620V		
Rated DC input power (P _{dcr})	10200 W	12760 W	15300 W	
Number of independent MPPT		2		
Maximum photovoltaic power recommended (PPV. max)	14500 Wp	18125 Wp	21750 Wp	
Maximum DC input power for each MPPT (PMPPT, Tmax)	7800W	8300W	10000W	
MPPT input DC voltage range (VMPPTmin VMPPTmax) a Pacr		460-850V		
Maximum DC input current (Idcmax) for each MPPT	2x17A	2x18A	2x22A	
Maximum input short circuit current for each MPPT		30 A		
Number of DC input pairs for each MPPT				
DC connection type		PV quick fit connecto		
nput protection		······		
Revers polarity protection		Yes, from limited current s		
nput over voltage protection for each MPPT	SPD Type II / Type I+II (optional)			
solation control	According to local standard			
Dutput side				
AC grid connection type	Three-phase (3W+PE or 4W+PE)			
Earthing system	TN-S, TN-C, TN-CS, TT	TN-S, TN-C, TN-CS, TT	TN-S, TN-C, TN-CS, T	
Rated AC power (P _{acr} @cosφ=1)	10000 W	12500 W	15000 W	
Maximum AC output power (P _{acmax} @cosφ=1)	10000 W	12500 W	15000 W	
Maximum apparent power (S _{max})	10000 VA	12500 VA	15000 VA	
Maximum reactive power (Q _{max})	6000 VAR	7500 VAR	9000 VAR	
Nominal power factor and adjustable range	> 0.995; 0,81 inductive/capacitive			
Rated AC output voltage (Vac.r)	······	380V, 400V ¹⁾		
Maximum AC output current (Iac.max)	16 A	20 A	23 A	
Rated output frequency (fr)		50 Hz / 60 Hz		
Dutput frequency range (fminfmax)	4753 Hz / 5763 Hz ²⁾			
Total current harmonic distortion	<3%			
Maximum AC cable	16 mm ² copper			
AC connection type	AC quick fit connector			
Dutput protection	······			
Anti-islanding protection	According to local standard			
Maximum external AC overcurrent protection	25 A	32 A	32 A	
Dutput overvoltage protection	······	SPD Type II	······	
Operating performance				
Maximum efficiency (ŋ _{max})	98,4%	98,5%	98,5%	
Weighted efficiency (EURO)	98,1%	98,2%	98,2%	
Communication			······	
Embedded communication interfaces		Double Ethernet port, WLAN, R	S485 port	
Communication protocol	Modbus TCP Sunspec, Modbus RTU Sunspec			
Local user interface	LEDs, Web User Interface, Installer APP, Display (optional)			
Cloud services	••••••	ırora Vision® Plant Management Pl		
Advanced features	Embedded export limitation control (in combination with external meter),			

Type code	PVS-10-TL	PVS-12.5-TL	PVS-15-TL		
Environmental					
Ambient temperature range	-25+60°C (-13140 °F) with derating above 45 °C (113 °F)				
Relative humidity	4% 100% with condensation				
Maximum operating altitude	4000 m (13123 ft) with derating above 2000 m (6561 ft)				
Physical					
Inverter type	Grid connected, double stage, transformerless				
Environmental protection rating	IP65				
Environmental classification	4K26 (IEC 60721-3-4)				
Cooling	Natural cooling				
Dimension (H x W x D)	565,7 x 469,8 x 207 mm				
Weight	29.6 Kg				
Mounting system	Mounting bracket				
Safety					
Marking	CE, RCM				
Safety and EMC standards	IEC/EN 62109-1, IEC/EN 62109-2, EN 61000-6-1, EN 61000-6-2, EN 61000-3-11, EN 61000-3-12 EN 62311, EN 301 489-1, EN 301 489-17, EN 300 328				
Certificates and compliance (check your sales channel for availability)	 IEC 61683, EN 50530, IEC 62116, IEC 61727, AS/NZS 4777.2, VDE-AR-N 4105, VDE-AR-N 4110, VDE V 0124-100, DIN VDE V 0126-1-1, VFR 2019, UTE C15-712-1, CEI 0-21, CEI 0-16, PEA, MEA, EN 50438 (including Ireland deviation), EN 50549-1/-2, CNS 15382, DRRG (DUBAI), CLC/TS 50549-1/-2, TOR Erzeuger, G98, G99, Synergrid C10/11, RD 413, RD 1565, RD244, P.O. 12.3, NTS 631, UNE 206006 IN (ITC-BT-40), PPDS-priloha, Denmark Type A/B, IRR-DCC-MV, ABNT NBR 16149, ABNT NBR 16150, Chile LV/MV, NRS 097-2-1, SII, ISO/IEC Guide 67, Netherlands Type A/B, EIFS Type A 				
Available product variants					
4 inputs with PV quick fit connectors + SPD Type 2 on the DC and AC side	PVS-10-TL-SX	PVS-12.5-TL-SX	PVS-15-TL-SX		
4 inputs with PV quick fit connectors + SPD Type 1+2 on the DC side and Type 2 on the AC side	PVS-10-TL-SY	PVS-12.5-TL-SY	PVS-15-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

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