



Certificate of Conformity

Product Certificate Number	21475-CER	
Applicant	FIMER S.p.A Via Tortona 25 20144, Milano, Italy	
Series	PVS	
Models/	PVS-100-TL-SX2 PVS-100-TL-SX PVS-100-TL-SY2 PVS-100-TL-SY PVS-100-TL-S2 PVS-100-TL	PVS-120-TL-SX2 PVS-120-TL-SX PVS-120-TL-SY2 PVS-120-TL-SY PVS-120-TL-S2 PVS-120-TL
Type of generating unit	Three-phase Solar Inverter	
Technical Data	See pages 2 and 3	
Software version	PVS-100-TL: 2116B; 2117B; 2201B PVS-120-TL: 2116C; 2117C; 2201C	
Network connection code	COMMISSION REGULATION (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators. Types A and B.	
Having assessed the report number: 20948-TR performed by CERE (Accredited Laboratory N° 5314.01) based on the requirements of the EN ISO/IEC 17025: 2017. The above-mentioned generating unit complies with the requirements of the: COMMISSION REGULATION (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators. Types A and B. (Parameters are defined into: DRE.WOSE.7128.550.2.2018.ZJ: 01/2019. and Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych. Version 1.2. PTPIREE. 28.04.2021) This certification is according to the CERE internal process PET-CERE-30 Rev 3, that defines the certification scheme, based on the requirements of the EN ISO/IEC 17065:2012. For this certification process the conformity assessment activities were based on: • Testing of production samples selected by CERE. • Audit of quality system according to ISO 9001 with certificate number: C2021-02571-T issued by a certification body accredited according to EN ISO/IEC 17021. • Inspection of the manufacturing process. This certificate cancels and supersedes the certificate number 20948-2-CER-E2 issued on December 01, 2021. Madrid, June 20, 2022. This certificate is valid until October 6, 2026 Miguel Martínez Lavin Certification Director		

Technical data

PVS-100-TL						
Wiring Box version	SX	SX2	SY	SY2	Standard	S2
Input side (DC side)						
Absolute maximum voltage	1000V					
Start-up voltage	420V (400-500V)					
Operating voltage range	360-1000 V					
Rated input	620V					
Rated power	102000 W					
No. Of independent MPPT	6	6	6	6	2 (Parallelable)	
Maximum power for each MPPT	21000W	21000 W	21000 W	21000 W	63000 W	63000 W
Maximum current for each MPPT	36 A	36 A	36 A	36 A	108 A	108 A
Maximum short circuit current	50 A	50 A	50 A	50 A	150 A	150 A
Output side (AC side)						
Connection type	Three phase 3W+PE or 4W+PE					
Rated power	100000 W					
Maximum apparent power	100000 VA					
Rated voltage	400 V					
Voltage range	320 - 480 V					
Maximum current for each MPPT	145 A					
Rated frequency	50 Hz/ 60 Hz					
Environmental						
Operating ambient temperature range	-25 to +60°C with derating above 40°C					
Relative humidity	4% - 100% condensing					
Environmental protection rating	IP 66 (IP54 for cooling section)					
Cooling	Forced air					
Dimension (H x W x D)	869x1086x419 mm / 34.2" x 42.7" x 16.5"					

Note:

- PVS-100-TL-SX2: Input with 24 quick fit connectors pairs + String fuses (both positive and negative pole) + DC disconnect switches + AC disconnect switch + AC and DC overvoltage surge arresters (Type II) + individual string monitoring (24 ch.).
- PVS-100-TL-SX: Input with 24 quick fit connectors pairs + String fuses (positive pole) + DC disconnect switches + AC and DC overvoltage surge arresters (Type II) + MPPT level input current monitoring (6 ch.).
- PVS-100-TL-SY2: Input with 24 quick fit connectors pairs + String fuses (both positive and negative pole) + DC disconnect switches + AC disconnect switch + AC and DC overvoltage surge arresters (Type II for AC and Type I+II for DC) + individual string monitoring (24 ch.).
- PVS-100-TL-SY: Input with 24 quick fit connectors pairs + String fuses (positive pole) + DC disconnect switches + AC and DC overvoltage surge arresters (Type II for AC and Type I+II for DC) + MPPT level input current monitoring (6 ch.).
- PVS-100-TL-S2: Input with cable gland + DC disconnect switch + AC disconnect switch + AC and DC overvoltage surge arresters (Type II) + MPPT level input current monitoring.
- PVS-100-TL: Input with cable gland + AC and DC overvoltage surge arresters (Type II) + MPPT level input current monitoring.

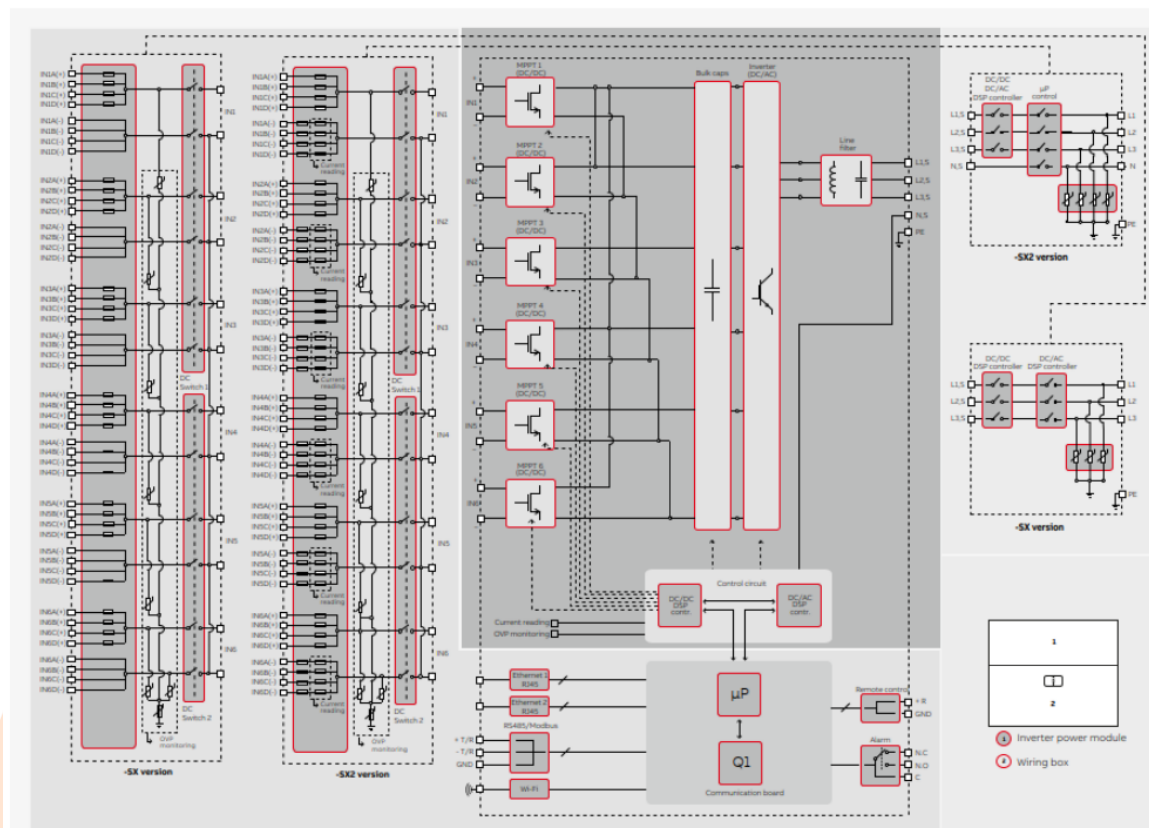
PVS-120-TL						
Wiring Box version	SX	SX2	SY	SY2	Standard	S2
Input side (DC side)						
Absolute maximum voltage	1000 V					
Start-up voltage	420V (400-500V)					
Operating voltage range	360-1000 V					
Rated input	720V					
Rated power	123000 W					
No. Of independent MPPT	6	6	6	6	2 (Parallelable)	
Maximum power for each MPPT	25000 W	25000 W	25000 W	25000 W	75000 W	75000 W
Maximum current for each MPPT	36 A	36 A	36 A	36 A	108 A	108 A
Maximum short circuit current	50 A	50 A	50 A	50 A	150 A	150 A
Output side (AC side)						
Connection type	Three phase 3W+PE or 4W+PE					
Rated power	120000 W					
Maximum apparent power	120000 VA					
Rated voltage	480 V					
Voltage range	384 – 576 V					
Maximum current for each MPPT	145 A					
Rated frequency	50 Hz / 60 Hz					
Environmental						
Operating ambient temperature range	-25 to +60°C with derating above 40°C					
Relative humidity	4% - 100% condensing					
Environmental protection rating	IP 66 (IP54 for cooling section)					
Cooling	Forced air					
Dimension (H x W x D)	869x1086x419 mm / 34.2" x 42.7" x 16.5"					

Note:

- PVS-120-TL-SX2: Input with 24 quick fit connectors pairs + String fuses (both positive and negative pole) + DC disconnect switches + AC disconnect switch + AC and DC overvoltage surge arresters (Type II) + individual string monitoring (24 ch.)
- PVS-120-TL-SX: Input with 24 quick fit connectors pairs + String fuses (positive pole) + DC disconnect switches + AC and DC overvoltage surge arresters (Type II) + MPPT level input current monitoring (6 ch.)
- PVS-120-TL-SY2: Input with 24 quick fit connectors pairs + String fuses (both positive and negative pole) + DC disconnect switches + AC disconnect switch + AC and DC overvoltage surge arresters (Type II for AC and Type I+II for DC) + individual string monitoring (24 ch.)
- PVS-120-TL-SY: Input with 24 quick fit connectors pairs + String fuses (positive pole) + DC disconnect switches + AC and DC overvoltage surge arresters (Type II for AC and Type I+II for DC) + MPPT level input current monitoring (6 ch.)
- PVS-120-TL-S2: Input with cable gland + DC disconnect switch + AC disconnect switch + AC and DC overvoltage surge arresters (Type II) + MPPT level input current monitoring.
- PVS-120-TL: Input with cable gland + AC and DC overvoltage surge arresters (Type II) + MPPT level input current monitoring.

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Electrical Diagram of PVS Series



The sample selected to test was representative of the production.
The sample was selected in:

FIMER S.p.A.
Via San Giorgio 642
52028, Terranuova Braccionlini, Italy

Sample Report Number:

20948-TM

The inspection of manufacturing process was performed in:
On July 08, 2021.

FIMER S.p.A.
Via, San Giorgio 642,
52028, Terranuova Bracciolini, Italy

Inspection Report Number:

20948-21-1-IF

RECORD OF CHANGES

Revision	Reason of the modification	Modification	Date
0	Initial version / Update of certificate 20948-2-CER-E2	New alternative software in page 1.	20/06/2022