

<b>Product Certificate Number</b>	<b>21100-1-CER</b>	
<b>Applicant</b>	FIMER S.p.A. Via Tortona 25, 20144, Milano, Italy	
<b>Series</b>	PVS	
<b>Models</b>	PVS-20-TL-SX PVS-20-TL-SY PVS-20-TL-SXD PVS-30-TL-SX	PVS-30-TL-SY PVS-33-TL-SX PVS-33-TL-SY PVS-33-TL-SI
<b>Type of generating unit</b>	Three-Phase Solar Inverter	
<b>Technical Data</b>	See page 2	
<b>Software version</b>	2121A 2124B	
<b>Grid connection code</b>	<b>Portaria nº73/2020 de 16 de março.</b> Requisitos não exaustivos para ligação dos módulos geradores à Rede Elétrica de Serviço Público (RESP). Types A, B, C and D.	
<p>Having assessed the report number: 21100-1-TR performed by CERE (Accredited Laboratory N° 5314.01) based on the requirements of the EN ISO/IEC 17025: 2017.</p> <p>The above-mentioned generating unit complies with the requirements of the:</p> <p><b>Portaria nº73/2020 de 16 de março.</b> Requisitos não exaustivos para ligação dos módulos geradores à Rede Elétrica de Serviço Público (RESP). Types A, B, C and D</p> <p>This certification is according the CERE internal process PET-CERE-09 Rev 31 based on the requirements of the EN ISO/IEC 17065:2012. For this certification process the conformity assessment activities were based on:</p> <ul style="list-style-type: none"> <li>• Testing of production samples selected by CERE.</li> <li>• Audit of quality system according ISO 9001 with certificate number: C2021-02571-T issued by a certification body accredited according EN ISO/IEC 17021.</li> <li>• Inspection of the manufacturing process.</li> </ul>		
<p>Madrid, October 15, 2021. This certificate is valid until October 15, 2026</p> <p style="text-align: right;">Miguel Martínez Lavin Certification Manager</p>		

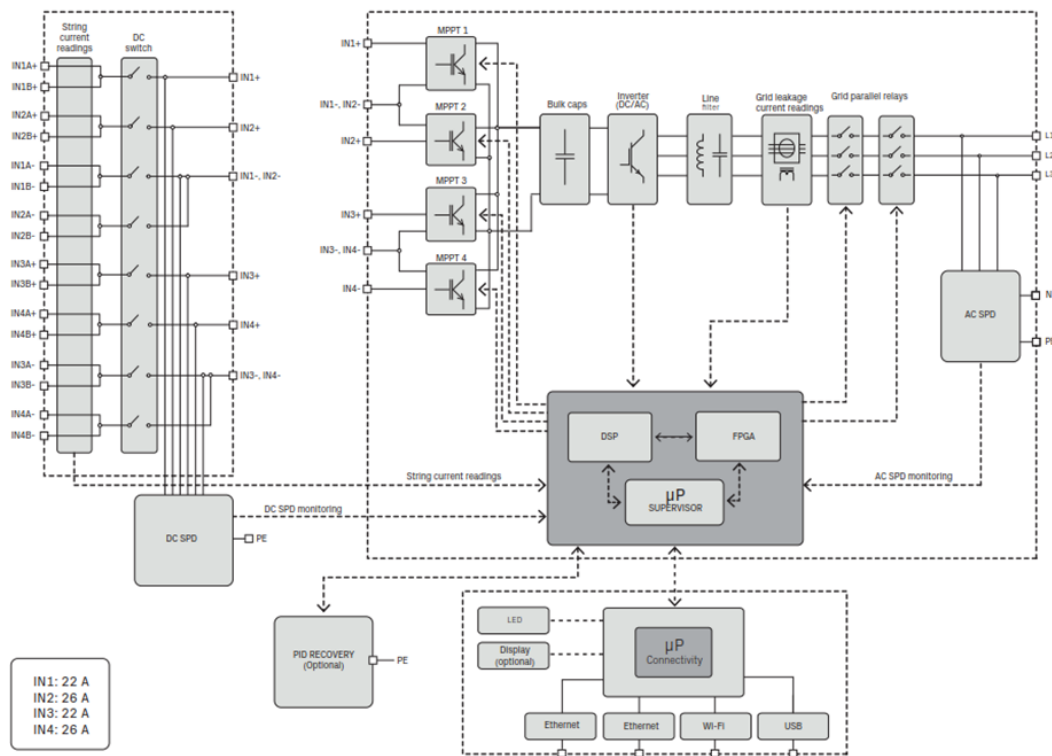
### Technical data

Model	PVS-20-TL-SX PVS-20-TL-SY	PVS-20-TL-SXD	PVS-30-TL-SX/ PVS-30-TL-SY	PVS-33-TL-SX/ PVS-33-TL-SY/ PVS-33-TL-SI
<b>Input side (DC side)</b>				
Absolute maximum voltage	1100 V			
Start-up voltage	250...500V (default 430V)			
Operating voltage range	200-1000 V			
Rated input	620V			
Rated power	20500 W	20500 W	30600 W	33700 W
No. Of independent MPPT	2	4		
Maximum power for each MPPT	2x12000W	2x12000W + 2x10000W		
Maximum current for each MPPT	2x26A	2x26A + 2x22A		
Maximum short circuit current	40 A			
<b>Output side (AC side)</b>				
Connection type	Three phase 3W+PE or 4W+PE			
Rated power	20000 W	20000 W	30000 W	33000 W
Maximum output power (up to 30°C)	22000 W	22000 W	33000 W	36300 W
Maximum apparent power (up to 30°C)	22000 VA	22000 VA	33000 VA	36300 VA
Maximum reactive power	20000 VAR	20000 VAR	30000 VAR	33000 VAR
Rated voltage	380V/ 400V			
Maximum current for each MPPT	33,4 A	33,4 A	50,1 A	55,1 A
Rated frequency	50 Hz / 60 Hz			
<b>Environmental</b>				
Operating ambient temperature range	-25 to +60°C with derating above 45°C			
Relative humidity	4% - 100% condensing			
Environmental protection rating	IP 65			
Cooling	Forced air			
Dimension (H x W x D)	675 (799,2 with connection boxes) x 591,8 x 227,5 mm			

Note:

- SX/SXD models: 8 inputs with PV quick fit connectors + SPD Type 2 on the DC and AC side.
- SY models: 8 inputs with PV quick fit connectors + SPD Type 1+2 on the DC side and Type 2 on the AC side.
- SI model: 8 inputs with PV quick fit connectors + SPD Type 2 on the DC and AC side for IT system.

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 Bracciolini, Italy

Sample Report Number:

21100-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	Modification / Changes	Date
0	Initial version	15/10/2021