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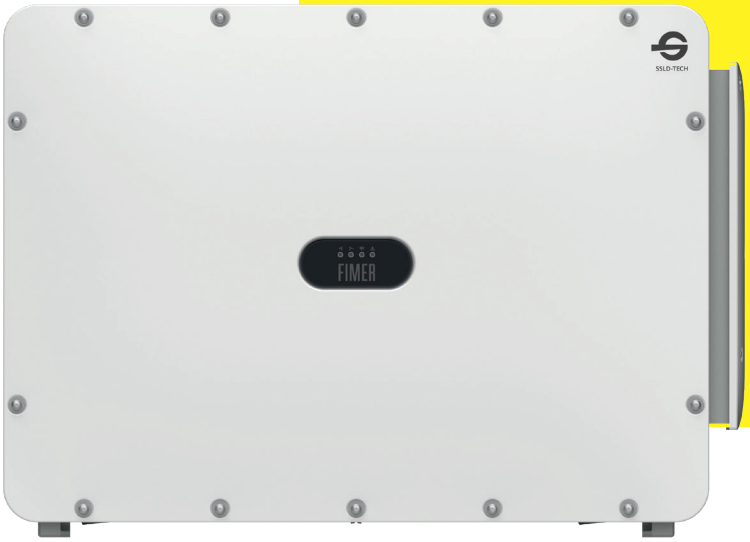
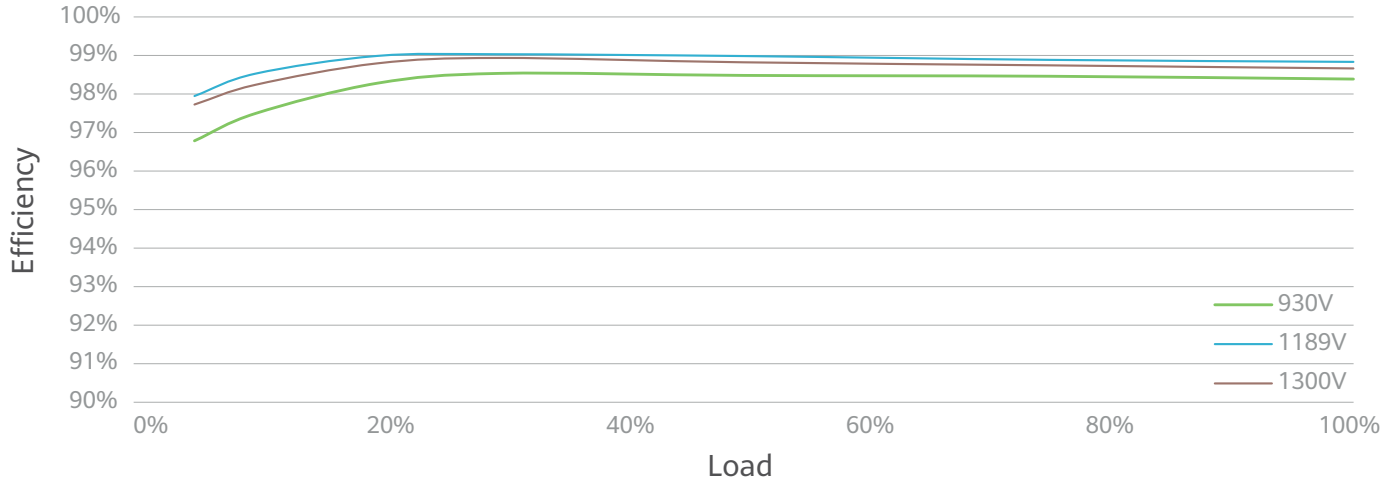
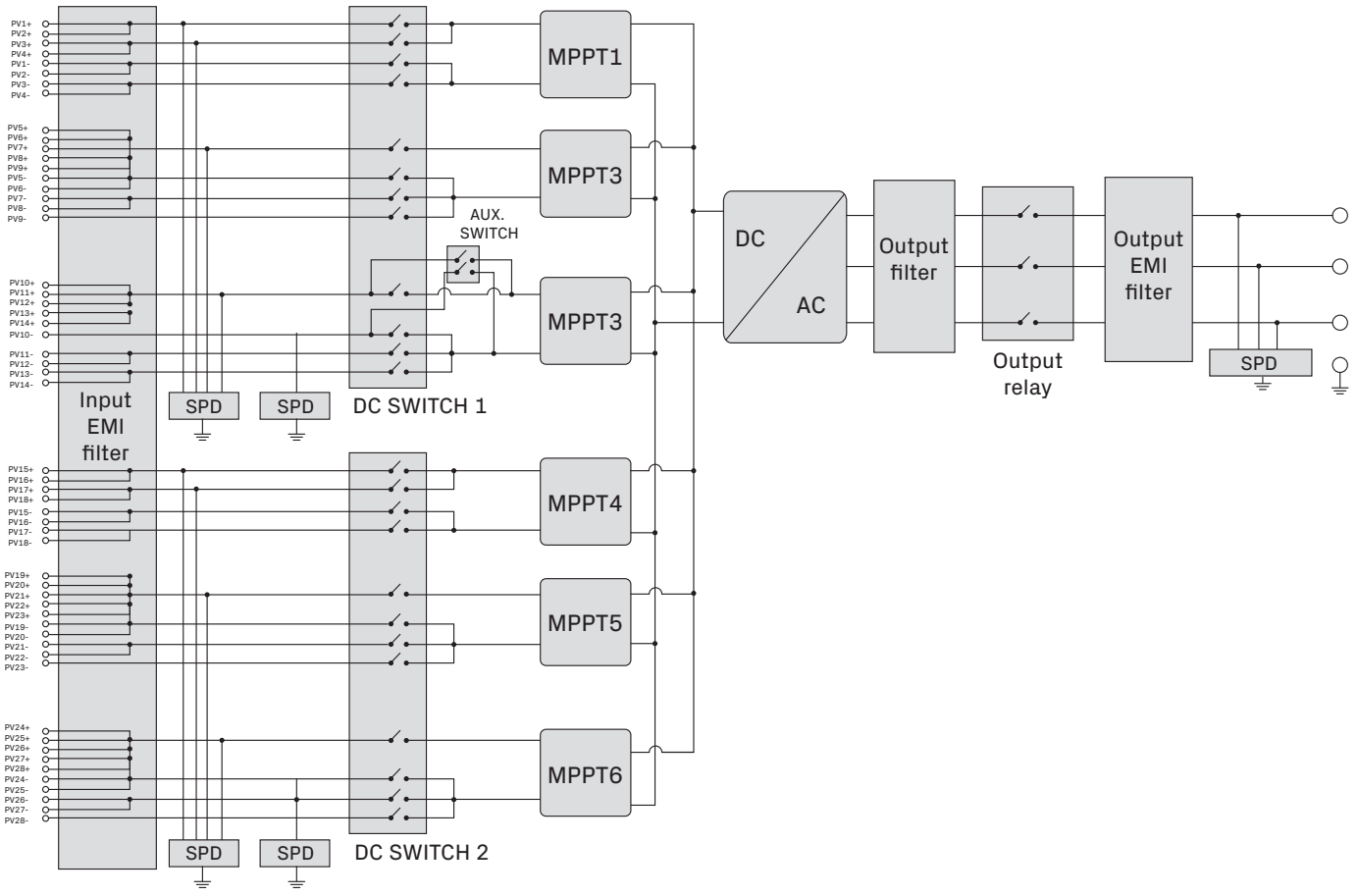


Solar inverter
PVS-330-TL

The PVS-330-TL is FIMER innovative photovoltaic inverter designed for large-scale installation. Equipped with smart string-level disconnection, IV curve diagnosis and self-cleaning FAN, it features six built-in MPPT trackers with a current capability up to 65A. Its 330kW maximum power outputs meets the need of utility installations with a MPPT range up to 1500V.

Up to 330 kW


100%
99%
98%
97%
96%
95%
94%
93%
92%
91%
90%
Efficiency
0%
20%
40%
60%
80%
100%
Load
930V
1189V
1300V


PV1+
PV2+
PV3+
PV4+
PV1-
PV2-
PV3-
PV4-
PV5+
PV6+
PV7+
PV8+
PV9+
PV5-
PV6-
PV7-
PV8-
PV9-
PV10+
PV11+
PV12+
PV13+
PV14+
PV10-
PV11-
PV12-
PV13-
PV14-
PV15+
PV16+
PV17+
PV18+
PV15-
PV16-
PV17-
PV18-
PV19+
PV20+
PV21+
PV22+
PV23+
PV19-
PV20-
PV21-
PV22-
PV23-
PV24+
PV25+
PV26+
PV27+
PV28+
PV24-
PV25-
PV26-
PV27-
PV28-
Input EMI filter
SPD
SPD
DC SWITCH 1
AUX. SWITCH
DC SWITCH 2
MPPT1
MPPT3
MPPT3
MPPT4
MPPT5
MPPT6
DC
AC
Output filter
Output relay
Output EMI filter
SPD

Technical data and types

Type code	PVS-330-TL
Input	
Max. Input Voltage	1500 V
Number of MPPT	6
Max. Current per MPPT	65 A
Max. Short Circuit Current per MPPT	115 A
Max. PV Inputs per MPPT	4/5/5/4/5/5
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1500 V
Nominal Input Voltage	1080 V
Output	
Nominal AC Active Power	300.000 W
Max. AC Apparent Power	330.000 VA
Max. AC Active Power (cosϕ=1)	330.000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	216.6 A
Max. Output Current	238.2 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Total Harmonic Distortion	THDi < 1% (Rated)
Protection	
Smart String-level Disconnection (SSLD)	Yes
Smart Connector-level Detection (SCLD)	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Detection	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Detection Unit	Yes
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
Efficiency	
Max. Efficiency	≥ 99.03%
European Efficiency	≥ 98.8%
General	
Dimensions (W x H x D)	1.048 x 732 x 395 mm
Weight (with mounting plate)	≤ 112 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m
Relative Humidity	0 ~ 100% (Non-condensing)
DC Connector	HH4SMM4TMSPA / HH4SFM4TMSPA
AC Connector	Support OT / DT Terminal (Max. 400 mm^2)
Protection Degree	IP 66
Anti-corrosion Protection	C5-Medium
Topology	Transformerless
Standards Compliance	
Environmental	IEC 62109-1/-2, IEC 62920, IEC 60947-2, EN 50549-2, IEC 61683, etc.

Remarks:
- **Features not specifically listed in the present data sheet are not included in the product**

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For more information please contact your local MA Solar Italy srl. representative or visit:

fimer.com

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