



TSUN

GEN3 Microinverter

TSOL-MX800 TSOL-MX900 TSOL-MX1000



Maximized Efficiency

Individual optimization, se-parate dedicated MPPT for each panel.

New topology design, max. efficiency up to 96.7%.

Flexibility

Suitable for TSOL-ESK series AC module solution.

Plug & play installation, Easy to install.

Safety

Max. DC voltage 60V. No threat for high DC voltage.

Integrated LoM protection function. Ensure the safety of power grid.

Reliability

Die casting design and glue filling technology. Better thermal dissipation.

Standard 12 years warranty, Quality guaranteed.

CE VDE 0126 VDE 4105 EN 50549 INMETRO RD 1699 G 98

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Technical Data

Model	TSOL-MX800	TSOL-MX900	TSOL-MX1000
Input(DC)			
Recommended Module Power [W]	300-600+	300-600+	300-600+
Start up Voltage [V]	22	22	22
MPPT Voltage Range [V]	16-60	16-60	16-60
Max. Input Voltage [V]	60	60	60
Max. Input Current per Input [A]	2x14	2x14	2x14
Max. Input Short-circuit Current [A]	20	20	20
Quantity of MPPTs	2	2	2
Output (AC)			
Max. Continuous Output Power [VA]	800	900	1000
Nominal Continuous Output Power [W]	800	900	1000
Nominal Output Current [A]	3.48	3.91	4.35
Max. Output Current [A]	4.00	4.50	5.00
Nominal Output Voltage [V]	220/230/240, L/N/PE		
Nominal Frequency [Hz]	50/60		
Power Factor	>0.99 default, 0.8 leading ... 0.8 lagging		
Output Current Harmonic Distortion	<3%		
Max. Units Per Branch (12AWG)	8	7	6
Max. Units Per Branch (10AWG)*	11	10	9

* 10 AWG cable is optional, please contact TSUN for more details

Efficiency

Peak Inverter Efficiency	97.0%
CEC Weighted Efficiency	96.7%
Nominal MPPT Efficiency	99.9%
EU Efficiency	96.7%
Night Time Power Consumption [mW]	< 50

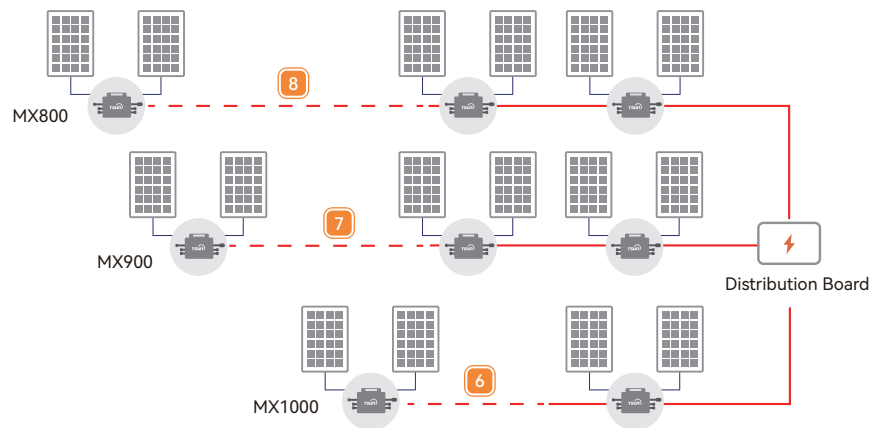
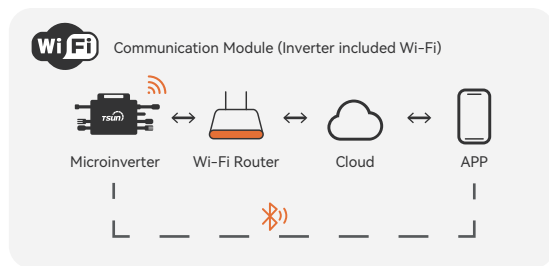
Mechanical Data

Dimensions [WxHxD mm]	250*223*30
Weight [kg]	3.1
Pallet	120
Type of Enclosure	IP67
Cooling	Natural Convection
AC Cable	2.43m

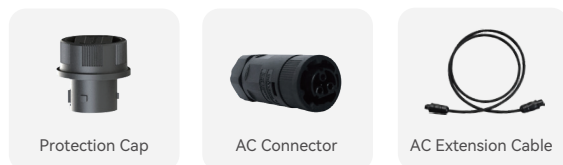
Environmental Data

Operating Ambient Temperature Range	-40 ~ +65 °C (derating of over 50°C Ambient Temperature@ PV input 30V)
Communication	WiFi module
Relative Humidity	100%
Max. Operating Altitude Without Derating [M]	2000
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2018, IEC/EN 62109-1/-2, CEI 0-21: 2022 / IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3

Diagram



Optional Accessories



For more information, please contact us at www.tsun-ess.com

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