

# TSUN GEN3 Plus Microinverter

TSOL-MS1600 TSOL-MS1800 TSOL-MS2000



## Maximized Efficiency

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

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

## Flexibility

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-MS1600	TSOL-MS1800	TSOL-MS2000
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## Input(DC)

Recommended Module Power [W]	300-700+	300-700+	300-700+
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 [A]	16	16	16
Max. Input Short-circuit Current[A]	25	25	25
Quantity of MPPT	4	4	4

## Output [AC]

Max. Continuous Output Power [VA]	1600	1800	2000
Nominal Continuous Output Power [W]	1600	1800	2000
Nominal Output Current [A]	7	7.8	8.7
Max. Output Current [A]	8	9	10
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	3	2	2

## Efficiency

Peak Inverter Efficiency	96.7%
CEC Weighted Efficiency	96.5%
Nominal MPPT Efficiency	99.9%
EU Efficiency	96.3%
Night Time Power Consumption [mW]	< 50

## Mechanical Data

Dimensions [WxHxD mm]	331 * 218 * 40
Weight [kg]	5.5
Type of Enclosure	IP67
Cooling	Natural Convection

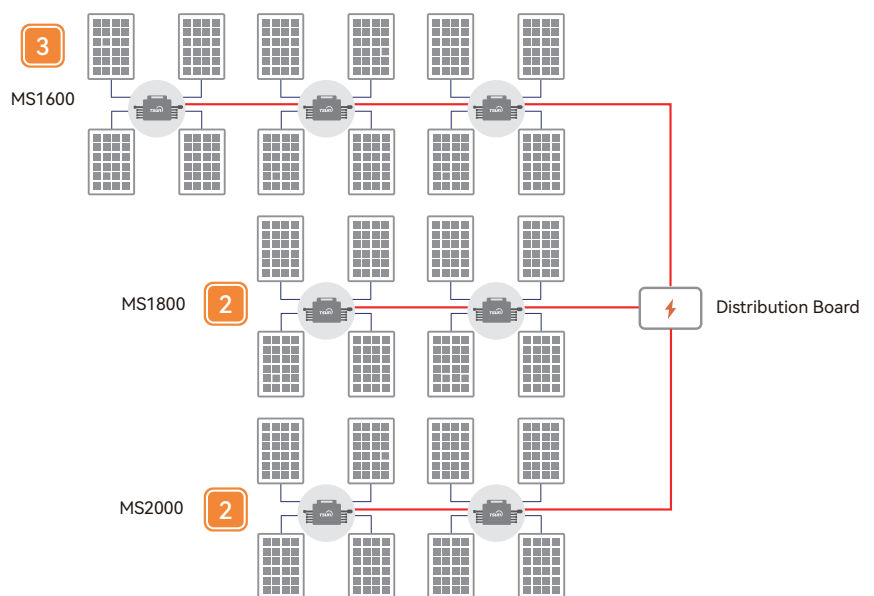
## Environmental Data

Operating Ambient Temperature Range [°C]	-40 °C to 65°C
Operating Internal Temperature Range [°C]	-40 °C to 85°C
Relative Humidity	0-100% condensing
Max. Operating Altitude Without Derating [M]	2000
Monitor	Integrated WiFi

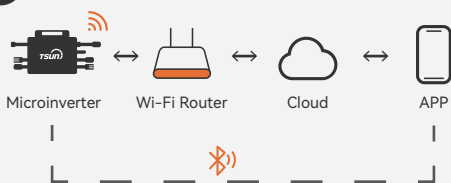
## Protection

Anti-Islanding protection	Integrated
Insulation monitoring	Integrated
AC surge protection	TYPE II
AC overcurrent protection	Integrated
AC short-circuit protection	Integrated
AC over/under voltage protection	Integrated
AC over/under frequency protection	Integrated
Over-heat protection	Integrated

## Diagram



Communication Module (Inverter included Wi-Fi)



For more information , visit / contact us at [www.tsun-ess.com](http://www.tsun-ess.com)

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