



TCM-1200

1200W WIFI Micro Inverter On-Grid
Solar Panel Smart Inverter

TCM-1200 (Wireless) Using IP65 waterproof streamline design, Can effectively prevent rainwater on the surface erosion, Built-in high-performance Maximum Power Point Tracking(MPPT) Function, Better able to track changes in the solar luminosity and control different output power, Effectively capture and collect sunlight. AC electric power transmission using the reverse transmission technology, Is one of our patented technology, The inverter output power can provide load priority use, Extra electricity to the grid, Efficient use of the inverter to the power emitted, Electricity transmission rate of up to 99%. Communication using two modes, Between the inverter and Collector Using power line carrier communication signals, Collector with a PC or other devices to communicate Using RS232 serial port/ WIFI wireless communication. Intelligent monitoring systems, The inverter can collect real-time data, Inverter can be controlled startup / shutdown / power regulation.

Features

- High performance maximum power point tracking (MPPT)
- Reverse power transmission
- Intelligent monitoring management
- Input/output is fully isolated to protect the electrical safety
- Multiple parallel stacking
- Digital control system
- Simplify maintenance (user serviceable)
- Operation and maintenance costs low
- Flexible installation
- Use the wireless 433 / 462MHz communication mode

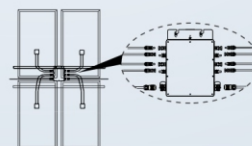
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Technicable Data of 1200W Solar Micro Inverter

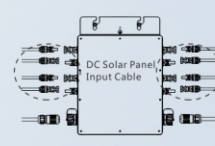
TCM-1200		
Maximum input power	1200Watt	
Peak power tracking voltage	22-50V	
Min / max starting voltage	22-55V	
Maximum DC short-circuit	60A	
Maximum input operating current	54.5A	
DATA		
Output Data	@120V	@230V
Peak power output	1200Watt	
Rated output power	1200Watt	
Rated output current	10A	5.2A
Rated voltage range	80-160VAC	180-260VAC
Rated frequency range	48-51/58-61Hz	
Power Factor	>99%	
Max unit per branch circuit	3pcs(Single-phase)	5pcs(Single-phase)
OUTPUT		
Output Efficiency	@120V	@230V
Static MPPT efficiency	99.5%	
Maximum output efficiency	95%	
Night time power consumption	<1W	
THD	<5%	
EXTERIOR & FEATURE		
Ambient temperature range	-40°C to +60°C	
Cooling	Self-cooling	
Communication Mode	WiFi mode	
Power transmission mode	Reverse transfer□load priority	
Monitoring System	Mobile APP, PC browser	
Electromagnetic Compatibility	EN50081.part1 EN50082.Party1	
Grid disturbance	EN61000-3-2 Safety EN62109	
Grid detection	DIN VDE 0126	
Certificate	CE ,BIS	
Dimensions	(L × W × H) 365mm×300mm×40mm	
Weight	2.81kg	
Waterproof rating	IP65	

CONNECTION

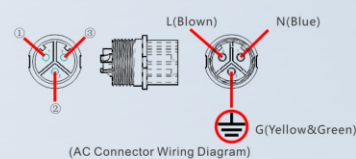
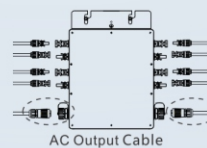
Step1 Installation for fixed the inverter on the PV holder with the screws attached is as following:



Step2 Connect the DC terminal of the PV to the inverter, positive to positive, negative to negative. Show below:



Step3 Open the waterproof cap on AC output side of the micro inverter, then plug to AC power line. Show below:



Step4 Plug the AC output line to main AC cable;

Step5 Repeat the first step to the third step to complete the installation of micro inverters;

Step6 Finally, please connect the AC main cable to the utility grid.

STRUCTURE of SOLAR POWER SYSTEM

