



IP65 Waterproof Micro Solar Inverter

MODE: TEG-250W-IP67



Product advantage





Introduction:

TGE-260W Series Used 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%.

Product Features:

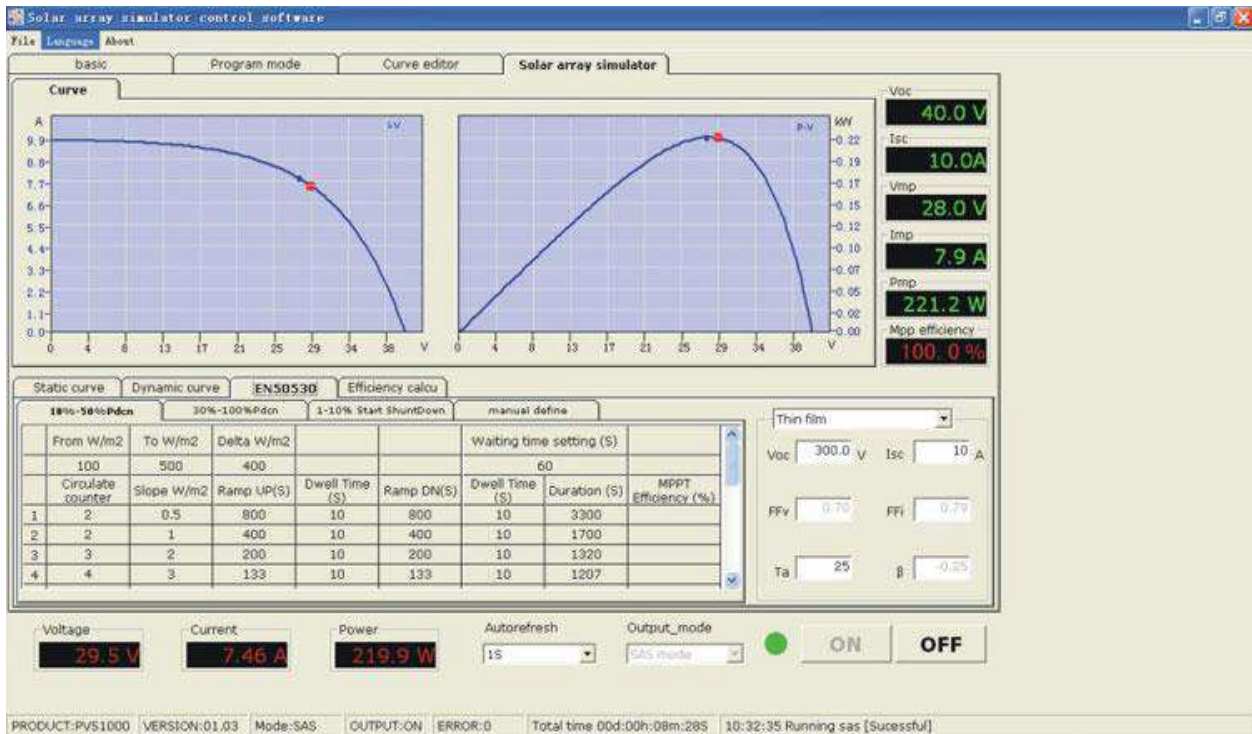
Pure Sine Wave Output	High performance Maximum Power Point Tracking(MPPT)	Power Automatically Locked(APL)	Reverse power transmission
High-Frequency High Conversion Rate	Anti-Islanding Protect	Input /output is fully isolated to protect the electrical safety	Multiple parallel stacking
Power Line Communications	IP65 WaterProof	Intelligent Monitoring Systems	Smaller Size & Lighter Weight
The Leading Patent Technology	Flexible Installation	Simplify maintenance (user serviceable)	Installation and maintenance costs low



High Efficiency & Best Cost-Effectiveness



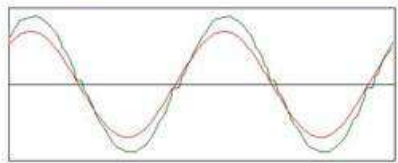
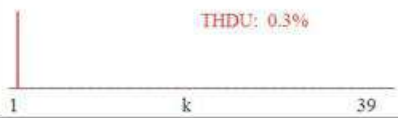
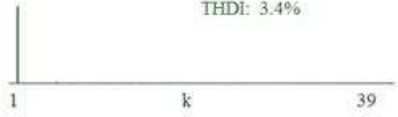
Intelligent MPPT & Weak Light Tracking Algorithm





Met The Grid Products Certification Standard

UI2010 Measure Report

Urms (V) 224.8	Irms (A) 0.303	P (W) 67.7	PF 0.994	Freq (Hz) 50.00			
		spectrum	voltage	current	spectrum	voltage	current
		k	%	%	k	%	%
		0	0.0	0.0	1	100.0	100.0
		2	0.0	0.2	3	0.2	1.1
		4	0.0	0.1	5	0.1	1.5
		6	0.0	0.0	7	0.0	0.9
		8	0.0	0.1	9	0.0	1.0
		10	0.0	0.1	11	0.0	0.8
		12	0.0	0.1	13	0.0	0.9
		14	0.0	0.0	15	0.1	1.2
		16	0.0	0.0	17	0.0	1.0
		18	0.0	0.0	19	0.0	0.7
		20	0.0	0.0	21	0.0	0.4
		22	0.0	0.0	23	0.0	0.5
		24	0.0	0.0	25	0.1	0.7
		26	0.0	0.0	27	0.0	0.7
		28	0.0	0.0	29	0.0	0.4
		30	0.0	0.0	31	0.0	0.3
		32	0.0	0.0	33	0.1	0.1
		34	0.0	0.0	35	0.0	0.1
		36	0.0	0.1	37	0.0	0.2
		38	0.0	0.0	39	0.0	0.3

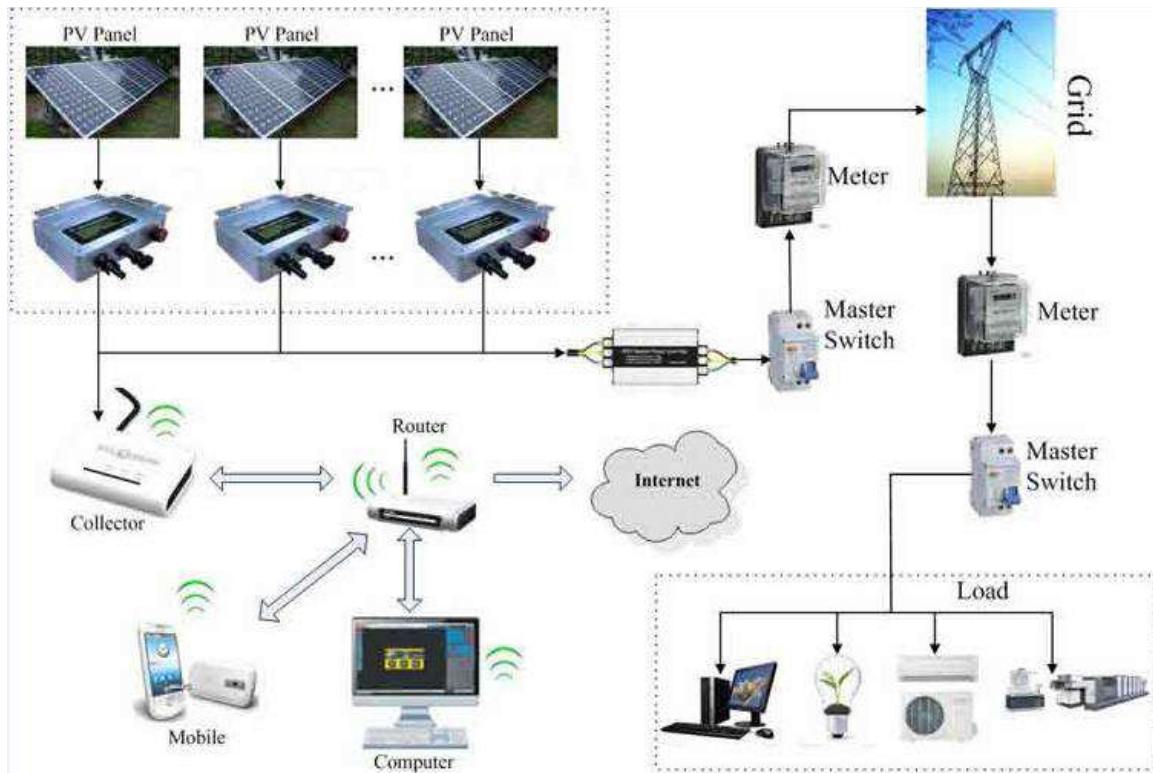
Product Parameters/Details

Input Data	TEG-260W-IP65	
Recommended input power	200-300Watt	
Recommend the use of PV modules	300W/Vmp>34V/Voc<50V	
Maximum input DC voltage	50V	
Peak power tracking voltage	25-40V	
Operating Voltage Range	17-50V	
Min / Max start voltage	22-50V	
Maximum DC short current	15A	
Maximum Input Current	9.8A	
Output Data	120VAC	230VAC
Peak power output	260Watt	260Watt
Rated output power	250Watt	250Watt
Rated output current	2.08A	0.92A
Rated voltage range	80-160VAC	180-260VAC
Rated frequency range	57-62.5Hz	47-52.5Hz
Power factor	>96%	>96%
Maximum units per branch circuit	15PCS(Single-phase)	30PCS(Single-phase)
Output Efficiency	120VAC	230VAC
Static MPPT efficiency	99.5%	99.5%
Maximum output efficiency	92.3%	94.6%
The average efficiency	91.2%	93.1%
Night time power consumption	<50mW Max	<70mW Max
THDI	<5%	<5%
Exterior		
Ambient temperature	-40℃ to +60℃	

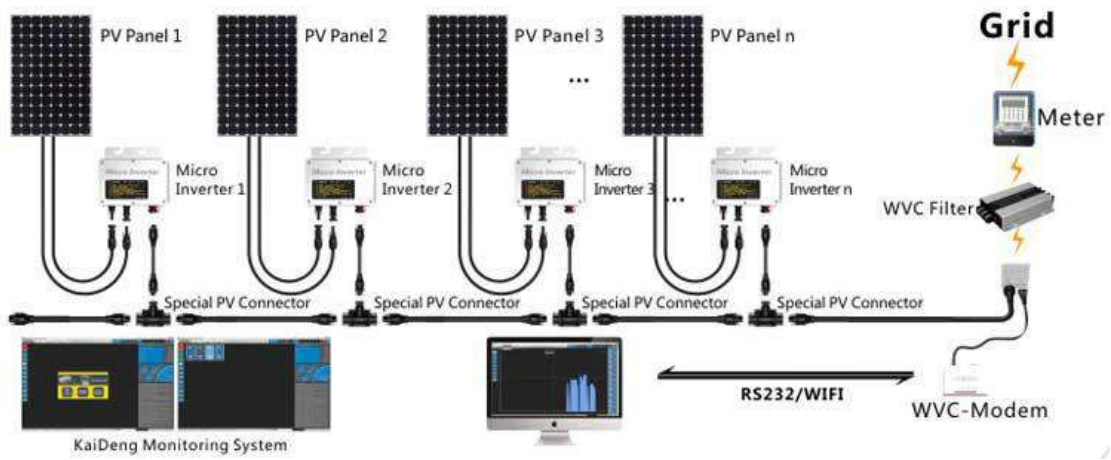


Operating temperature range (inverter inside)	-40°C to +82°C
Dimensions (WxHxD)	191mm*176mm*38mm
Weight	0.83kg
Waterproof Rating	IP65
Cooling	Self-cooling
Feature	
Communication Mode	Power Line
Power transmission mode	Reverse transfer, load priority
Monitoring System	Lifetime free
Electromagnetic compatibility	EN50081.part1EN50082.part1
Grid disturbance	EN61000-3-2 Safety EN62109
Grid detection	DIN VDE 1026 UL1741
Certificate	CEC,CE National patent technology

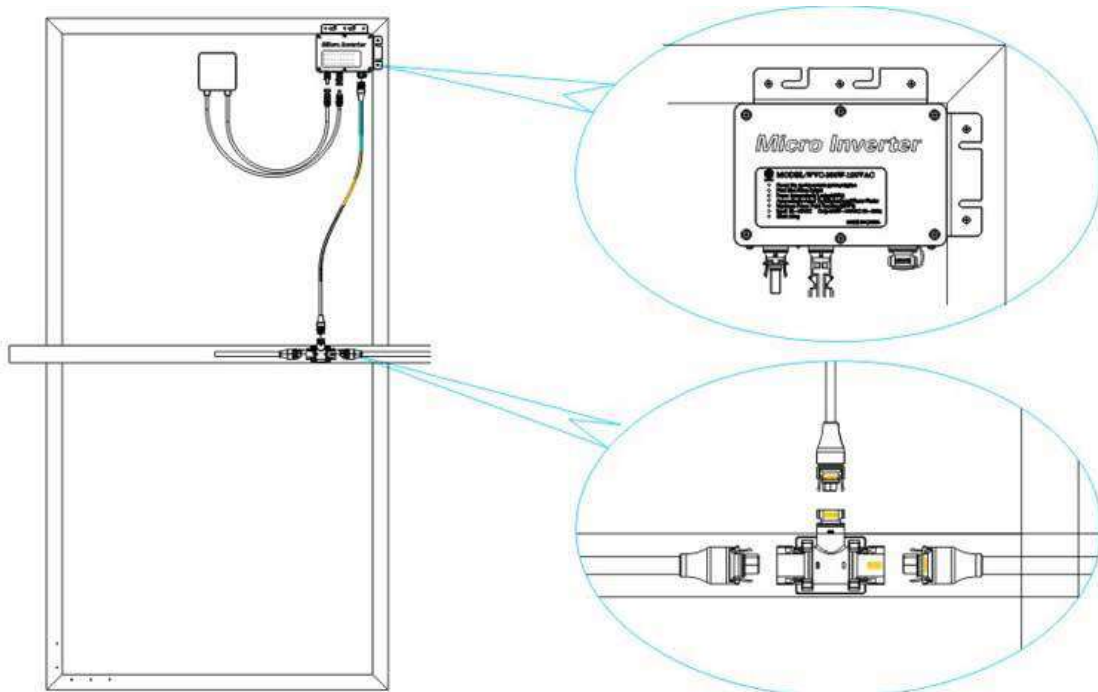
System Block Diagram & Application



In order to achieve higher power, we can use this inverter in stack. For example: 10 pcs of 260W grid tie inverter used in stack can achieve 2600W. And the stacking number is unlimited.

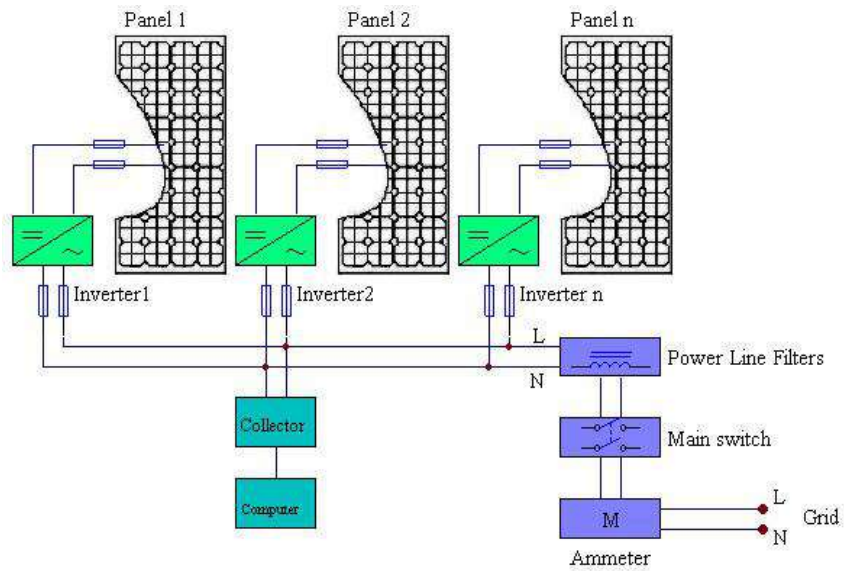


Easy Installation

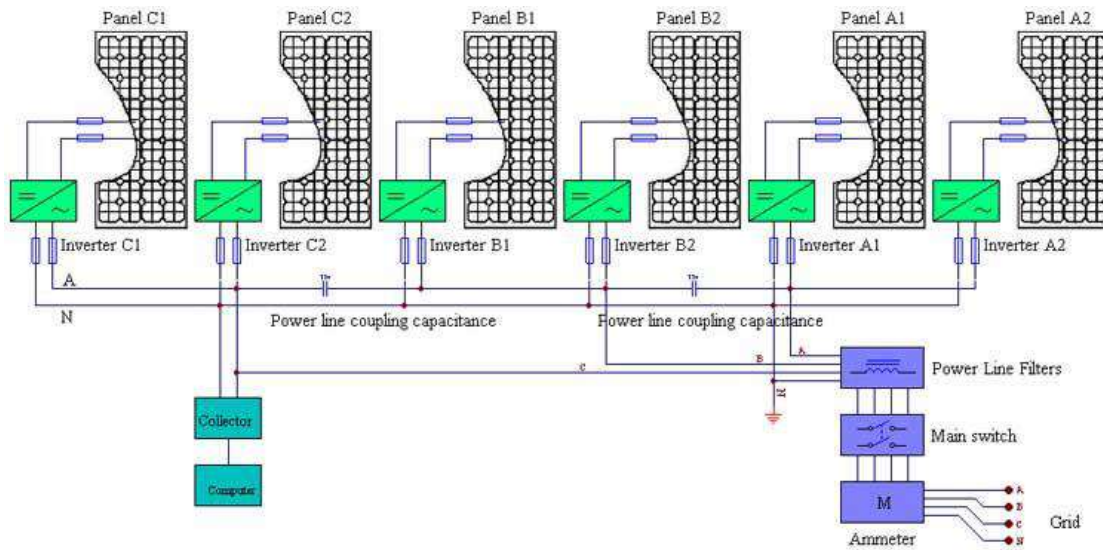




Single-Phase & Three-Phase Electrical Schematics



Single-Phase



Three-Phase

Notes

- Please install the inverters according to the user manual and connect the ground safety.
- Forbid opening the shell with non-professional person, only qualified maintenance person can repair the product.
- The inverter should be installed in the low humidity and well ventilated place, and remove the flammable things surrounding the inverter for avoiding overheating.
- Avoid children play when the inverter is working.
- Ensure the DC input and AC output when connect with PV.
- The Vmp and Voc of PV should be fit for the product for get output max.
- All inverter must secure connection ground wire.



Warranty

5-Year Repair. 20-Year Limited Warranty.

Why Is This Micro Inverter

1. The transition from a centralized to a distributed inverter optimizes energy collection.
2. The converter module integrated into the solar panels can reduce installation costs.
3. Soft switch technology to replace hard-switching technology can improve efficiency and reduce heat dissipation.
4. From cottage industry to mass production, standardized design (hardware and software) to improve reliability and reduce costs.
5. Using a special capacitor (due to the high failure rate). Design requires a higher voltage to reduce the current, we use a special electrolytic capacitors.
6. The converter can be connected to the grid to eliminate the need for many battery applications. The high price of batteries, require maintenance, life expectancy is shorter.
7. Work required micro-inverter power increasingly smaller (only a few hundred watts), which can reduce the internal temperature and improve reliability.
8. Micro-inverter solar inverter system needs to deal with a lot of a particular power level, in order to increase production, thereby reducing costs.