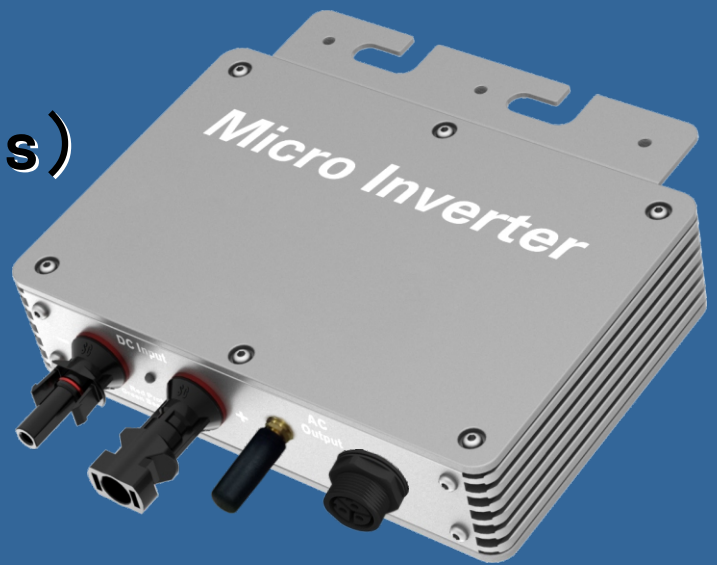
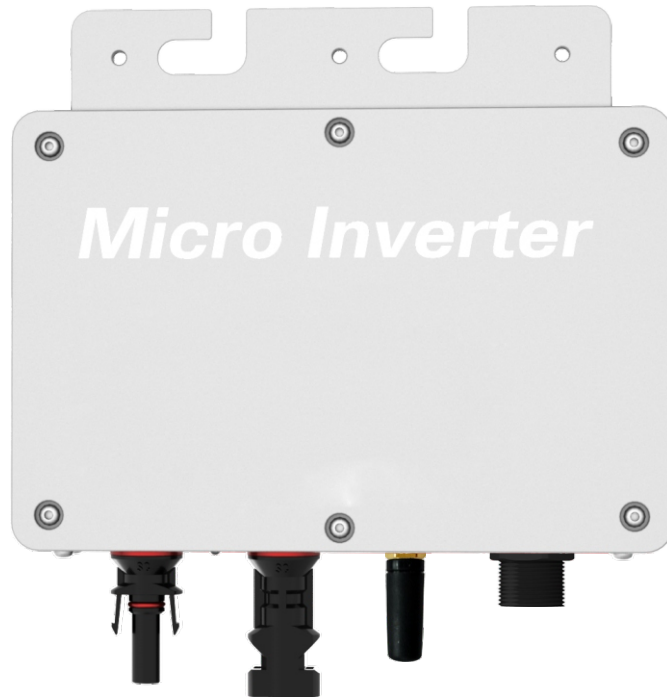


Smart Inverter WVC-300 (Wireless) Description



ATO-WVC-300 (433MHz Wireless) Micro Inverter



ATO-WVC-300 (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 433MHz communication mode

ATO-WVC-300 (Wireless)

WVC-300 (Wireless)

Parameters	
Maximum input power	320Watt
Recommended using solar panels	Power300W, open circuit voltage 36-50VOC
Solar panel open circuit voltage range	36-50VOC
Peak power tracking voltage	22-50V
Min / Max start voltage	22-50V
Maximum DC short current	20A
Maximum Input Current	12A
Automatic shift AC voltage and output	Automatic shift local grid voltage

Output Data	@120VAC	@230VAC
Peak power output	320Watt	320Watt
Rated output power	300Watt	300Watt
Rated output current	2.5A	1.3A
Rated voltage range	80-160VAC	180-280VAC
Rated frequency range	48-51Hz/58-61Hz	48-51Hz/58-61Hz
Power factor	>99%	>99%
Maximum units per branch circuit	6PCS (Single-phase)	12PCS (Single-phase)

Output Efficiency	@120VAC	@230VAC
Static MPPT efficiency	99.5%	99.5%
Maximum output efficiency	95%	95%
Night time power consumption	<1W	<1W
THD	<5%	<5%

Exterior	
Operating temperature range	-40℃ to +60℃
Dimensions (WxHxD)	192mm×176mm×38mm
N.W.	0.9kg
Waterproof level	IP65
Cooling	Self-cooling
Communication Mode	Wireless 433MHz
Power transmission mode	Reverse transfer, load priority
Monitoring System	Lifetime free
Electromagnetic compatibility	EN50081. part1 EN50082. part1
Grid disturbance	EN61000-3-2 Safety EN62109
Grid detection	DIN VDE 1026 UL1741
Certificate	CEC, CE National patent technology

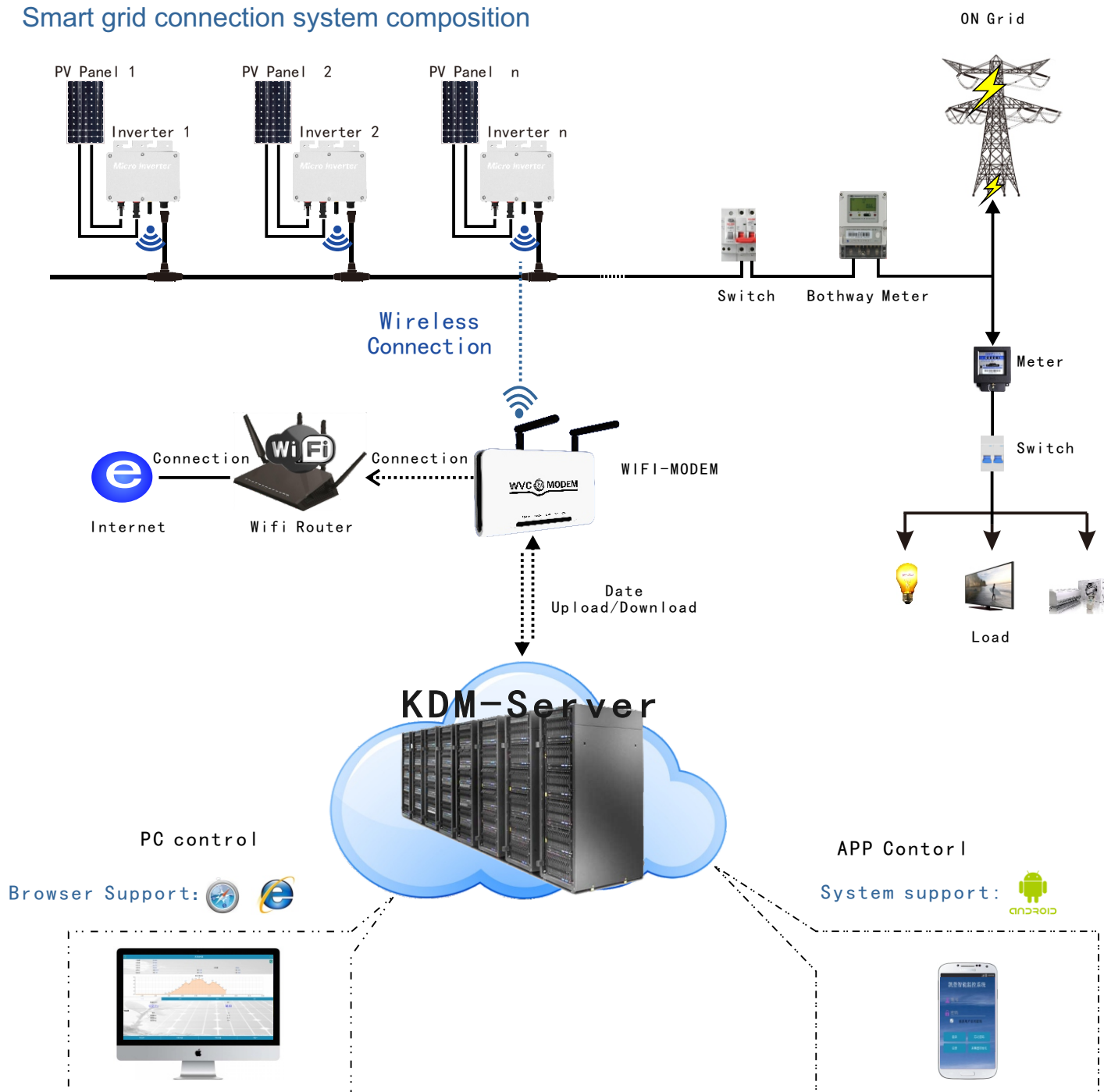
Package weight		
Sepcification	Single(packing)	Whole (16PCS)
G.W.	1.07Kg	19.34Kg
Dimensions	245×202×60mm	450×395×345mm

* Attn:each MODEM can control 46 PCS micro inverters on the condition of non-intelligent electric box

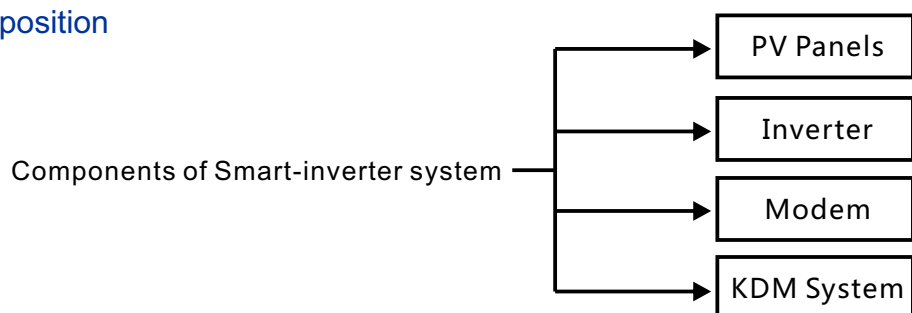
Micro Inverter

ATO-WVC-300 (Wireless)

Smart grid connection system composition



System composition



Micro Inverter

ATO-WVC-300 (Wireless)

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①DC Input "-"

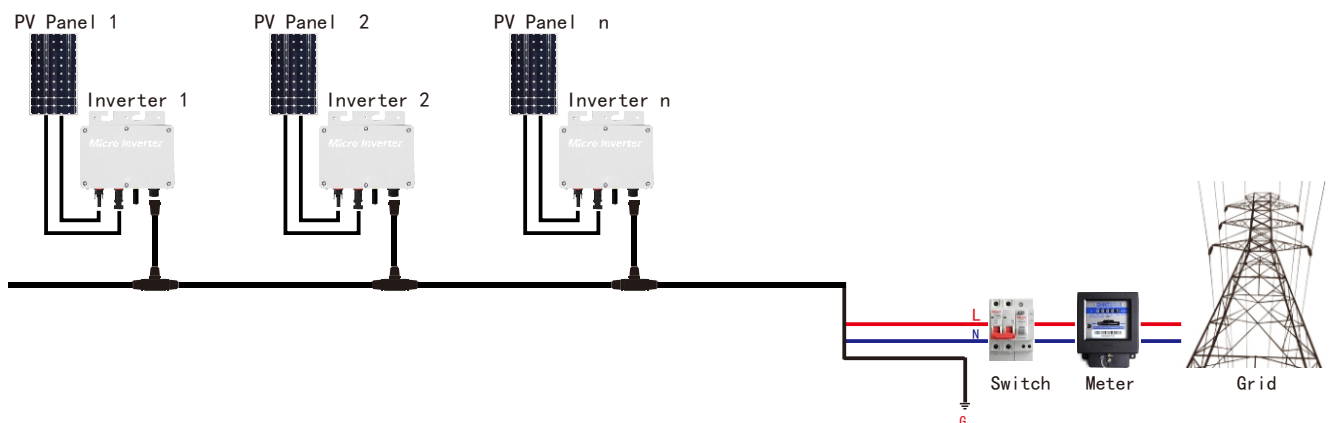
②DC Input "+"

③AC Output

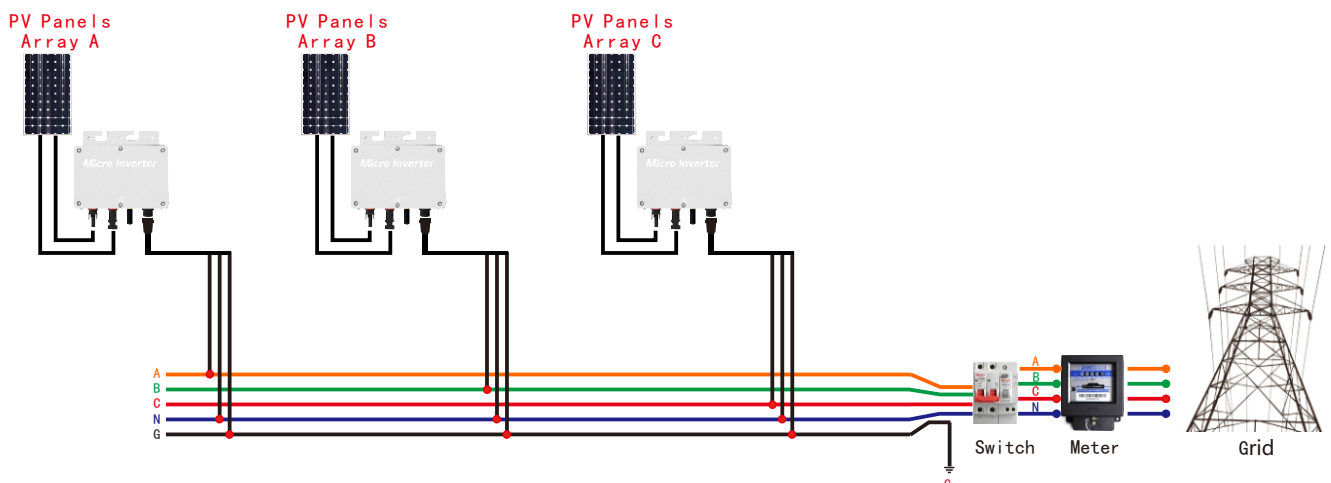
④433MHz Antenna

⑤LED Display

Single-phase electrical schematics



Three-phase electrical schematics



Micro Inverter

ATO-WVC-300 (Wireless)

Installation and connection

ATO-WVC-300 Series Solar Inverter very easy to install, No need for project professionals can also install. Whether installation or maintenance are very simple, No maintenance.

