



MICRO INVERTER WVC-300

streamline design, built-in high-performance Maximum Power Point Tracking (MPPT) function, more better to track change on solar luminosity and control different output power, effectively capture and collect sunlight. AC electric power transmission based on advanced reverse transmission technology which is one of our patented technologies, load priority and the rest electricity to the grid, high electricity transmission efficiency up to 99%. Excellent stability, reliability, safety and heat dissipation. Perfect communication solution of wireless 433 / 462MHz between micro inverter and collector, RS232 or wifi communication between collector and PC / mobile client. Intelligent monitoring system, the collector is able to collect / track real-time data on each PV module and transmit to PC, user can easily control micro inverter's startup / shutdown / power regulation by software. Ingenious and modular connection accessories(cable and connector) for micro inverter cluster to ensure economy, easy installation and safety.

WVC-300 micro inverter with Aluminum alloy shell & IP65 & waterproof

High performance micro inverter

- Input / output isolated to protect safety
- Rapid MPPT tracking technology
- Superior PV energy harvest
- Excellent thermal performance
- High overload capacity

Easy and afford to install

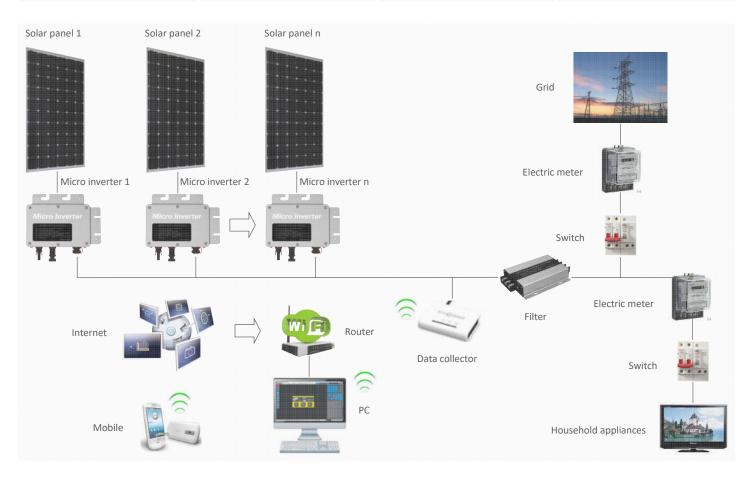
- Lightweight and compact size
- Outdoor application with firm IP65
- Ingenious and modular end connection
- Reverse connection prevention design
- Flexible installation

Data transmission & communication

- Intelligent remote monitoring system
- Real-time data for each PV module
- Wireless 433/462MHz communication
- RS232 or wifi interface
- LED indication implies system status

Cost advantages

- Wide input voltage for solar PV modules
- Higher performance-to-price-ratio
- Low transport cost by small size design
- Low maintenance expense



WVC-300 MICRO INVERTER

INPUT DATA		WVC-300 (120VAC / 230VAC)	
Recommended input power		320Watt	
Recommended PV modules		320W / Vmp > 30VDC / Voc < 50VDC	
Maximum input DC voltage		54VDC	
Peak power tracking voltage		22-50VDC	
Operating voltage range		17-50VDC	
Min. / Max. Start voltage		22-50VDC	
Maximum DC short current		15A	
Maximum input current		13A	
OUTPUT DATA	@120VAC		@230VAC
Peak output power	320Watt		320Watt
Rated output power	300Watt		300Watt
Rated output current	2.08A		1.08A
Rated voltage range*	80-160VAC		180-260VAC
Rated frequency range*	50-60Hz		50-60Hz
Power factor (cos φ)	> 99%		> 99%
Maximum units per subcircuit	6pcs (Single-phase)		12pcs (Single-phase)
OUTPUT EFFICIENCY	@120VAC		@230VAC
Static MPPT efficiency	99.5%		99.5%
Maximum output efficiency	95%		95%
Consumption at night	<50mW Max		< 50mW Max
THD	< 3%		< 3%
OPERATING CONDITIONS / DIMENSIONS / APPLICATIONS		WVC-300 (120VAC / 230VAC)	
Environment temperature		-40℃~+65℃	
Operating temperature (Inside inverter)		-40°C ~ +82°C	
Electrical isolation		Transformer	
Cooling concept		Self - cooling	
Degree of protection (Waterproof)		IP65	
Communication mode		Wireless 433 / 462MHz, RS232 / wifi interface	
Power transmission mode		Reverse transfer, load priority	
Dimensions (W×H×D mm)		192mm × 176mm × 38mm	
Net weight (Kg)		0.90Kg	
Electromagnetic compatibility		EN50081. PART 1, EN50082. PART 1	
Grid disturbance		EN61000-3-2, Safety 62109	
Grid detection		DIN VDE 1026, UL1741	
Certifications		CEC, CE	
Warranty		5 years materials and workmanship, 25 years extended warranty.	
* AC rated voltage range and frequency range depend on local standards.			

* For 230VAC grid each PV subcircuit againsts 12 units micro inverter, for 120VAC grid each PV subcircuit againsts 6 units micro inverter.

 st The monitoring software has ability to simultaneously run recommend 100 units micro inverter.