



## MICRO INVERTER WVC-295

**WVC-295** micro inverter with Aluminum alloy shell & IP67 & waterproof 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.

### High performance micro inverter

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

### Easy and afford to install

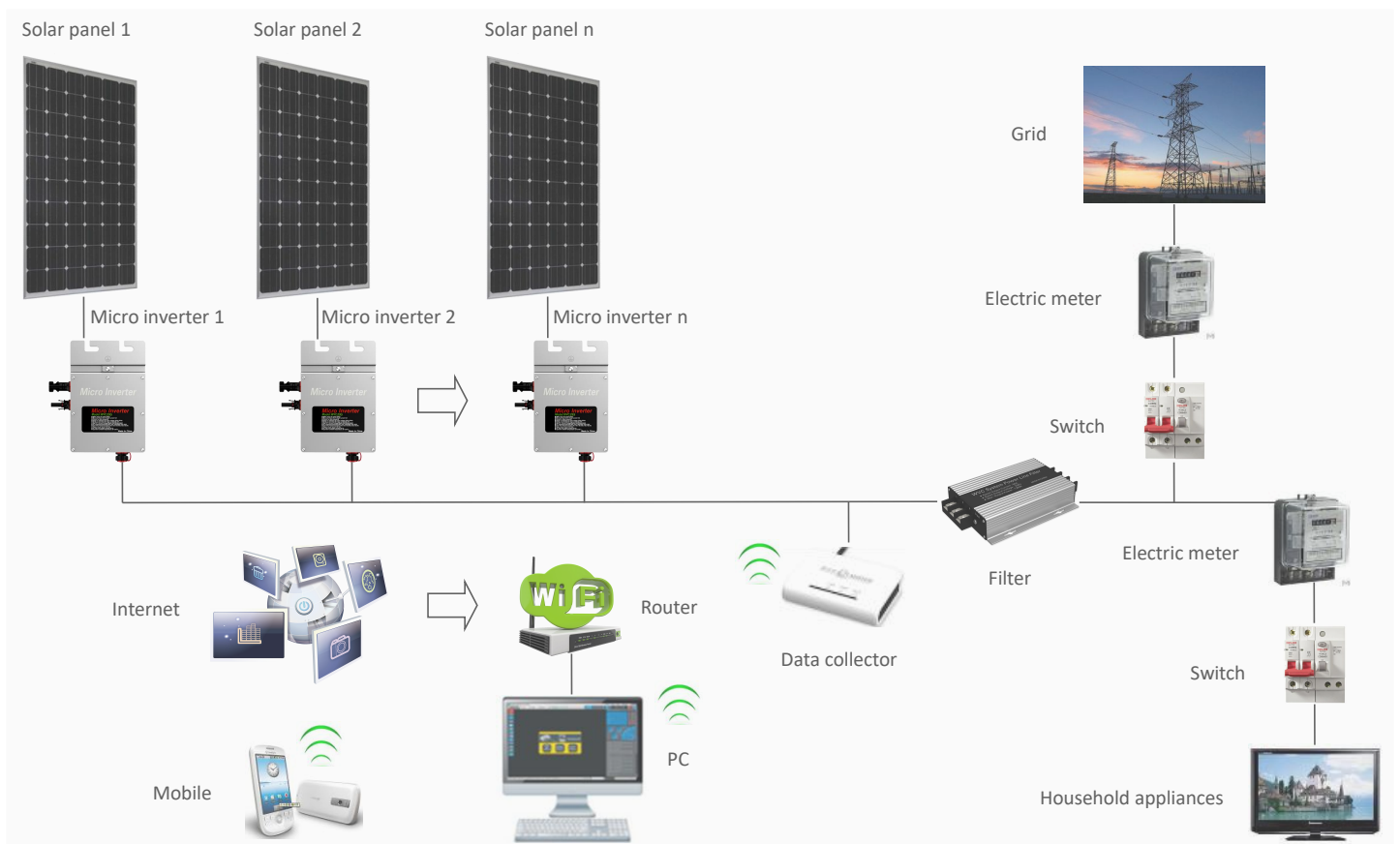
- Lightweight and compact size
- Outdoor application with firm IP67
- Ingenious and modular end connection
- Reverse connection prevention design
- Flexible installation

### 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-295 MICRO INVERTER

INPUT DATA	WVC-295 (120VAC / 230VAC)
Recommended input power	300Watt
Recommended PV modules	300W / Vmp > 34VDC / Voc < 50VDC
Maximum input DC voltage	50VDC
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	9.8A

OUTPUT DATA	@120VAC	@230VAC
Peak output power	300Watt	300Watt
Rated output power	287Watt	289Watt
Rated output current	2.08A	0.92A
Rated voltage range*	80-160VAC	180-260VAC
Rated frequency range*	50-60Hz	50-60Hz
Power factor (cos $\phi$ )	> 96%	> 96%
Maximum units per subcircuit	6pcs (Single-phase)	12pcs (Single-phase)

OUTPUT EFFICIENCY	@120VAC	@230VAC
Static MPPT efficiency	99.5%	99.5%
Maximum output efficiency	96.5%	97.0%
Euro efficiency	95.5%	96.2%
Consumption at night	< 50mW Max	< 70mW Max
THD	< 3%	< 3%

OPERATING CONDITIONS / DIMENSIONS / APPLICATIONS	WVC-295 (120VAC / 230VAC)
Environment temperature	-40°C ~ +60°C
Operating temperature (Inside inverter)	-40°C ~ +80°C
Electrical isolation	Transformer
Cooling concept	Self - cooling
Degree of protection (Waterproof)	IP67
Communication mode	Wireless 433 / 462MHz, RS232 / wifi interface
Power transmission mode	Reverse transfer, load priority
Dimensions (W×H×D mm)	195mm × 130mm × 32mm
Net weight (Kg)	0.85Kg
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

\* AC rated voltage range and frequency range depend on local standards.

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