



MICRO INVERTER WVC-300

WVC-300 micro inverter with Aluminum alloy shell & IP65 & 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 thermal performance
- High overload capacity

Easy and afford to install

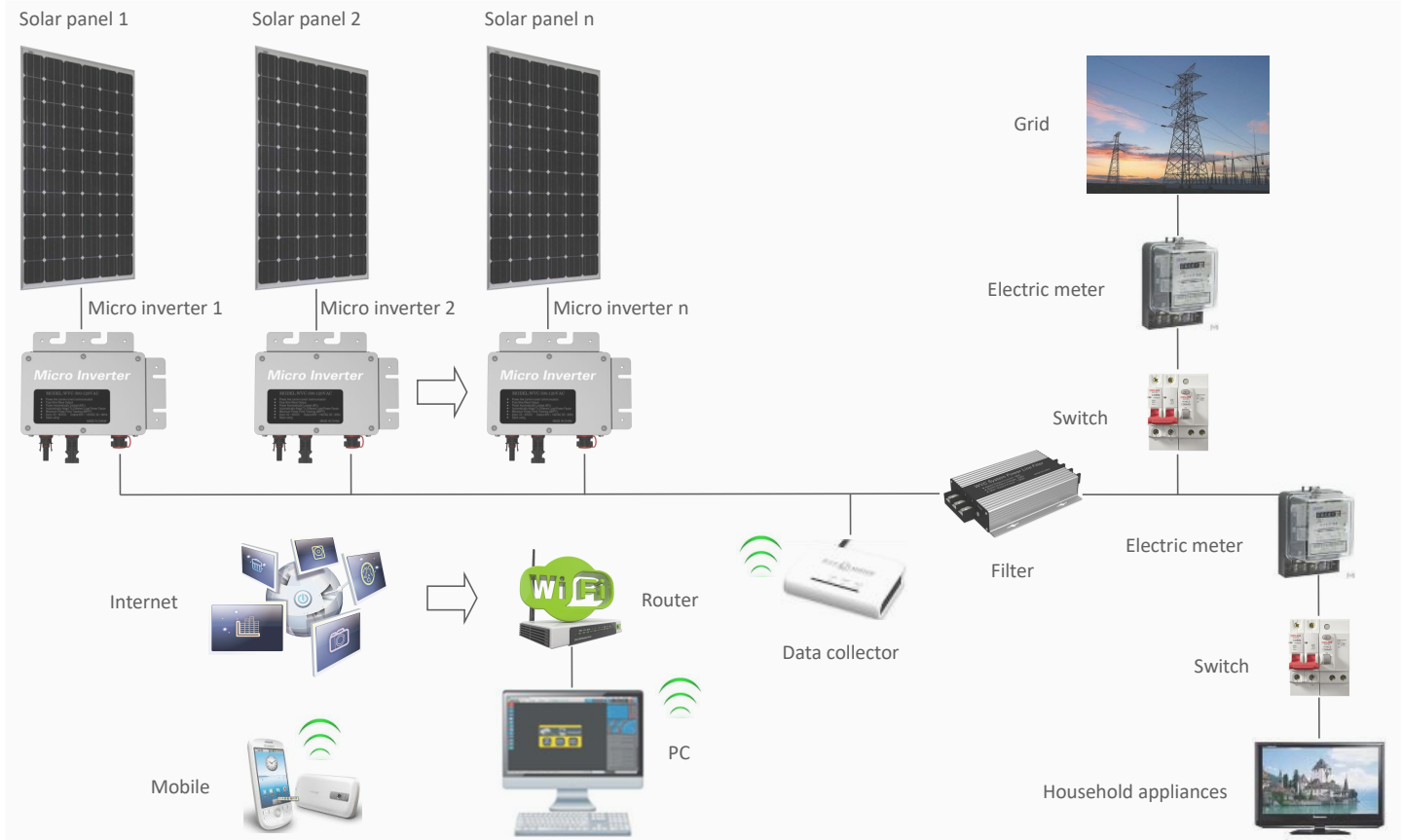
- Lightweight and compact size
- Outdoor application with firm IP65
- Ingenious and modular end connection
- Reverse connection prevention design
- Flexible installation

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 | 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 φ) | > 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-300 (120VAC / 230VAC) |
|--|---|
| Environment temperature | -40°C ~ +65°C |
| 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) | 215mm × 160mm × 32mm |
| Net weight (Kg) | 1.14Kg |
| 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.