

# Solar Smart Micro Inverter



## HIGH YIELD

- Max. efficiency 95%
- WIFI/2.4G



## High flexibility and strong scalability

- Automatic adjustment
- Supports 10 parallel machines



## Steady and Convenience

- Pure Sine Wave
- Easy installation with multiple protection functions

## Product Features

- MPPT(maximum power point tracking), effectively track and lock maximum power output of solar panels
- When the inverter track the maximum power point of the solar panel, it will automatically locked and with stable output
- 4 independent MPPT (MPPT)
- Standard MC4 input port, easy and safe installation
- Integration AC output port
- Pure sine wave output
- Anti-islanding protection function: inverter will be automatically stop output, when the utility grid off or fault
- Over-temperature protection. short current protection and over-load protection
- IP65 waterproof function
- Build-in intelligent WIFI communication function APP monitoring
- Die-casting aluminum alloy shell design, fast heat dissipation & not easy to deform
- Global grid voltage/frequency automatic identification

## Product Specifications

| Model   | MZ-IVM 800                                  | MZ-IVM 1600 | MZ-IVM 2000 |
|---|---|-------------|-------------|
| <b>Input Data(DC,PV)</b>  |   |             |             |
| Number of Input MC4 Connector                                     | 2sets                                       | 4sets       | 4sets       |
| MPPT Voltage Range (V)  | 28-55                                       | 16-60       | 16-60       |
| Operation Voltage Range (V)                                       | 18-55                                       | 18-60       | 18-60       |
| Maximum Input Voltage (V)   | 52  | 60          | 60          |
| Startup Voltage (V)   | 18  | 22          | 22          |
| Maximum Input Current (A)   | 14  | 16          | 16          |
| <b>Output Data(AC)</b>  |   |             |             |
| Single-Phase Grid Type(V)   | 120 / 230                                   | 120 / 230   | 120 / 230   |
| Rated Output Power(W)   | 750   | 1600        | 2000        |
| Maximum Output Power(W)   | 800   | 1600        | 2000        |
| Nominal Output Current  | @120VAC (A)                                 | 6.6         | 7.8         |
|   | @230VAC (A)                                 | 3.47        | 3.47        |
| Nominal Output Voltage (VAC)                                      | 120 / 230                                   |             |             |
| Default Output Voltage Range                                      | @120VAC : 90V-160V @230VAC : 190V-260V      |             |             |
| Nominal Output Frequency  | 60Hz / 50Hz                                 |             |             |
| Default Output Frequency Range                                    | @60Hz : 58.9Hz-61.9Hz @50Hz : 47.5Hz-50.5Hz |             |             |
| Power Factor  | >0.99                                       |             |             |
| Total Harmonic Distortion   | THD <5%                                     |             |             |
| <b>Efficiency</b>   |   |             |             |
| Peak Efficiency   | 95%   |             | 96.7%       |
| Maximum conversion efficiency                                     | 95%   |             | 96.5%       |
| CEC efficiency  | 95%   |             | 96.3%       |
| Night Power loss  | <80mW                                       |             | <50mW       |
| <b>Mechanical Data</b>  |   |             |             |
| Operating Ambient Temperature Range (°C)                          | -40 to +65                                  |             |             |
| Storage Temperature Range (°C)                                    | -40 to +85                                  |             |             |
| Max Current of AC Bus Cable (A)                                   | 20  |             |             |
| Waterproof Grade  | IP67  |             |             |
| Cooling Mode  | Natural Convection - No Fan                 |             |             |
| <b>Other Features</b>   |   |             |             |
| Dimensions (LxWxH) (mm)   | 200X310X45                                  |             |             |
| Weight(kg)  | 2.5   |             |             |
| Communication   | Wifi/2.4G                                   |             |             |
| <b>Standard</b>   |   |             |             |
| EN61000-3-2, EN61000-3-3, EN62109-1/-2. EN55032, EN55035, EN50438 |   |             |             |