# Transformer-based Inverter
## YF-FS-WM Series

aurora
OPTOELECTRONIC




## Features

- Pure Sine Wave Output
- Max. 6 In Parallel
- Can Support WIFI/GPRS
- DC Start & Automatic Self-diagnostic Function
- High Efficiency Design For Optimized Battery Performance
- Automatically Send Signal To Start Generator

# Datasheet

| | |
|---|---|
| Model | YF-FS-WM 12548P |
| Input Voltage | 230VAC |
| Input Voltage Range | 90-275VAC±3V(APL Mode), 170-275VAC±3V(UPS Mode) |
| Input Frequency | 50/60Hz±5% |
| Rated Output Power | 10000W |
| Grid Mode Output Voltage | The output voltage under the mains is the same as the input voltage |
| Grid Mode Output Frequency | The output frequency under the mains is the same as the input voltage |
| Inverter Mode Output Voltage | 230VAC±10% |
| Inverter Mode Output Frequency | 50Hz or 60Hz±1% |
| Inverter Mode Output Wave | Pure Sine Wave |
| Battery Type | External lead-acid battery, water battery or Lithium battery |
| Battery Voltage | 48VDC |
| Constant Charging Voltage(Adjustable) | 56.4VDC(Adjustable Range: 48V-61V) |
| Float Charging Voltage(Adjustable) | 54VDC(Adjustable Range: 48V-61V) |
| Max. Photovoltaic Array Power | 5400W |
| PV Input Voltage Range(MPPT) | 60-245VDC |
| Max. Photovoltaic Array Open Circuit Voltage | 245VDC |
| Best VMP Working Range | 60-170VDC |
| Max. Solar Charging Current | 100A |
| Max. AC Charging Current | 100A(Default 80A) |
| Transfer Time | ≤20ms(APL Mode)/ ≤10ms(UPS Mode) |
| load Peak Ratio | (MAX)3:1 |
| Standby Power Consumption(W) | Toroidal Power Transformer(Glue filling)<br>48W |
| Parallel Interface | MAX. 6 Units In Parallel |
| Protect Function | Grid Mode: Input overcurrent air switch protection |
| | Inverter Mode: Overload protection, short circuit protection, low voltage protection, battery reverse connection protection (fuse) |
| Status Display | Color segment screen code plus LED display |
| | You can view AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters by turning the page keys. |
| | LED displays mains power, charging status, inverter status, and fault status |
| Sound Prompt | The buzzer has different alarm sounds according to different fault codes, which are distinguished by long and short sounds. |
| Interface Function | RS232, lithium battery BMS communication, parallel interface, dry contact card |
| Working Temperature | -10°C~50°C |
| Storage Temperature | -15°C~45°C |
| Relative Humidity | 20%~95%(No condensation) |
| Noise | <45dB |
| Product Dimension(L*W*H)mm | 545*405*175mm |
| Package Dimension(L*W*H)mm | 659*516*272mm |

***Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.**

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