

#### MAJOR ADVANTAGES

Super performance & reliability  
Exceptional installation flexibility  
Elegant & Practical design  
Connectivity & Smart features  
Robustness & Durability  
Versatile Applications

#### DIMENSIONS

Size: 342 x 122 x 471 mm  
Weight: 12 Kg

#### RATED PARAMETERS

- Power: 5000 VA/5000 W  
- Input voltage: 230 VAC  
- Input current: 32A  
- Input frequency: 50/60 Hz self-adapting

#### OPERATING ENVIRONMENT

-10°C~50°C  
IP rating: IP21

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## II. Inverter Off-Grid Hybrid 5kW

The inverter that does it all, adapts to anything, and installs anywhere. Pure sine wave, 10ms switching, and maximum battery/PV compatibility in an elegant wall-mounted design.

- SUPERIOR PERFORMANCE & RELIABILITY**

**Pure sine wave output:** Stable, uninterrupted power compatible with all sensitive electronics (computers, TVs, etc.)

**Power factor 1.0:** Maximum output capacity utilization  
- 5kVA = 5kW real power, no loss

**Ultra-fast switching:** Only 10 ms between power sources - your equipment stays on, no restart needed

**Extended PV range 120-450Vdc:** Accepts more panels in series, reduces wiring and simplifies configuration

- EXCEPTIONAL INSTALLATION FLEXIBILITY**

**Adjustable battery voltage:** Compatible with 24V and 48V (per model) + very wide AC input voltage range 30-280V

**Mixed solar/grid charging:** Configurable AC/battery input priority based on your needs

**Smart battery charger:** Optimizes battery performance and lifespan (lead-acid, lithium, etc.)  
Auto-adaptive frequency range: 50/60Hz automatic - perfect for imports and varied regions

- ELEGANT & PRACTICAL DESIGN**

**Sleek wall-mounted design:** Simple, discreet wall installation saves space

Graphic LCD + keypad interface: Intuitive monitoring and settings, no computer needed on-site

**Lightweight & compact:** Only 13-14 kg depending on model - single-person installation possible

- CONNECTIVITY & SMART FEATURES**

**Multi-communication:** Integrated USB/RS232/RS485  
- compatible with most monitoring systems

**Optional Wi-Fi:** Remote monitoring via smartphone/PC with real-time alerts

**Dry contact:** Easy integration with home automation or alarm systems



- ROBUSTNESS & DURABILITY**

**Complete protection:** Overload (up to 200% momentary), overvoltage, undervoltage, overheating  
Intelligent cooling: Variable-speed fan - quiet operation and extended lifespan

**Impressive overload capacity:** Handles 110-150% for 10 seconds, ideal for motor or pump startup

- VERSATILE APPLICATIONS**

**Perfect off grid:** Complete autonomy with PV battery priority

**UPS backup:** Protection against outages with grid priority

**Simple hybridization:** Combine power sources without complexity

#### CONFIGURABLE PRIORITY

Adjustable AC grid/battery input  
priority

#### INTELLIGENT BATTERY CHARGER DESIGN

Optimizable battery performance,  
with high efficiency  
charging/discharging technology

#### HIGH PV INPUT RANGE

120V-450Vdc

#### PURE SINE WAVE OUTPUT

Output power factor 1.0

#### WARRANTY PERIOD

5 years

#### SKU

201-Inv-Off5

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## Inverter Off-Grid Hybrid - Specification data\*



#### • AC INPUT

**Rated input voltage:** 230 VAC

**Input voltage range:** 170~280VAC PC, 90~280VAC  
home application

**Rated input frequency:** 50/60Hz self-adapting

**Input frequency range:** 40~65 Hz

**Rated input current:** 32A

**Max. input current:** 40A

#### • BATTERY

**Battery type:** Lead-acid battery / lithium battery

**Rated voltage:** 48VDC

**Charging voltage:** 54VDC (default), 48~58.4VDC  
settable

**Overcharge protection voltage:** 60.5VDC

**Rated discharge current:** 113.7A

**Communication interfaces:** USB/RS232/RS485, dry  
contact, Wi-Fi (optional)

temperature protection, fan fault detection etc.

**Protections:** Input over/under voltage protection,  
input over/under frequency protection, output  
overload, output short-circuit, radiator over

#### • PV/AC CHARGING

**PV charging:** MPPT

**Max. PV plate power:** 6000 W

**Max. PV plate open circuit voltage:** 450VDC

**MPPT operation range voltage:** 120~430VDC

**Max. PV input current:** 27A

**Max. PV charging current:** 100A

**Max. AC charging current:** 100A

**Max. battery charging current:** 100A

#### • AC OUTPUT

**Rated AC output voltage:** 230VAC $\pm$ 5%

**Output settable voltage:** 220V/230V/240V

**Output settable frequency:** 50Hz/60Hz

**Rated AC output current:** 21.70A

**Overload capacity:** 10s @ 110%~150% rated  
load; 5s @  $\geq$ 150% rated load; 100ms @  $\geq$ 200%  
rated load

**THDU:** < 5%, linear load; < 10%, non-linear load

**Efficiency (peak value):** 98 %

**Surge power:** 10000VA, 5 cycles

**Switching time:** 10ms

\* Specifications in the datasheet are subject to  
change without notice

#### RELATED PRODUCTS

I. Solar Panel 455 W

III. LFP Battery: 16kW

IV. Full Solution Solar Car Port