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DATASHEET · EAP-DS-20261107-OG5-R01

# 5 kW

Off-grid hybrid inverter · EU model · 208/220/230/240 Vac · 24 V battery · 5 kW

An off-grid hybrid inverter for single-phase 208–240 Vac sites. The 5 kW platform runs a 24 V lithium or lead-acid bank, charges from an MPPT solar input of up to 9,000 W and from the mains at 160 A, and keeps a pure sine wave output within 50/60 Hz ±0.1 %. Switchover to UPS takes 10 ms in APP/UPS mode.

OFF-GRID HOMES | BACKUP POWER | CABINS AND RV | RURAL ELECTRIFICATION | SMALL COMMERCIAL | AGRICULTURE




| 5 kW | 10 kVA | 160 A | 8.4 kg |
|---|---|---|---|
| RATED AC OUTPUT | SURGE POWER | MAX CHARGE, PV + AC | NET WEIGHT |

## KEY FEATURES

01
### Pure sine wave, 10 ms UPS
Pure sine wave output at 50/60 Hz ±0.1 % with a 10 ms switchover in APP/UPS mode and 20 ms in GEN mode.

02
### MPPT solar charging
One MPPT tracker with a 60–450 window, 27 A / 9,000 W maximum input and 500 maximum open-circuit voltage.

03
### Lithium or lead-acid
A 24 V bank with floating charge at 27 V and overcharge protection at 30.5 V; CAN and RS485 talk to LFP batteries.

04
### Compact wall-hanging cabinet
410 × 336 × 110 mm and 8.4 kg, with an LCD HMI on the front panel.

05
### WiFi monitoring
WiFi (optional, built-in or external), so the installation stays visible in the app and the cloud.

06
### Parallel-ready
Parallel quantity is not available on this model, as printed in the source table.

## SCOPE OF SUPPLY

- 5 kW EU off-grid hybrid inverter
- Integrated MPPT solar charger
- LCD HMI
- WiFi monitoring module (optional)
- Wall-mount bracket and manual

### APPLICATION NOTE

Size the array inside the MPPT window of this model and keep the battery bank matched to the 24 V nominal. The charger accepts PV and mains at the same time, so a small generator can cover the night load while the array recharges the bank. Confirm the battery profile with the BMS supplier before the first charge.

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## TECHNICAL SPECIFICATIONS

### AC INPUT

| | |
|---|---|
| Rated input voltage | **208/220/230/240 Vac, L+N+PE** |
| Voltage range | **90–280 Vac (APP/GEN mode); 170–264 Vac (UPS mode)** |
| Frequency | **50/60 Hz (auto adaptive)** |

### AC OUTPUT

| | |
|---|---|
| Rated output power | **5 kW** |
| Surge power | **10 kVA** |
| Output voltage | **208/220/230/240 Vac, L+N+PE** |
| Power factor | **1** |
| Output frequency | **50/60 Hz ±0.1 %** |
| Switch time | **10 ms (APP/UPS mode) / 20 ms (GEN mode)** |
| Waveform | **Pure sine wave** |
| Overload capacity (battery mode) | **60 s at 102–120 % load; 10 s at 120–200 % load** |
| Max efficiency (battery mode) | **93.5 % @ 24 Vdc** |
| Parallel quantity | **Not available** |

### PV INPUT AND CHARGER

| | |
|---|---|
| Solar charger type | **MPPT** |
| Max PV input current / power | **27 A / 9,000 W** |
| MPPT range at operating voltage | **60–450 Vdc** |
| Max PV open-circuit voltage | **500 Vdc** |
| Max PV charge current | **160 A** |
| Max AC charge current | **160 A** |
| Max charge current (PV + AC) | **160 A** |

### BATTERY

| | |
|---|---|
| Battery type | **Lead-acid / lithium** |
| Normal voltage | **24 Vdc** |
| Floating charge voltage | **27 Vdc** |
| Overcharge protection | **30.5 Vdc** |

### INTERFACE AND MONITORING

| | |
|---|---|
| HMI | **LCD** |
| Interface | **RS232 / RS485 / CAN** |
| Monitoring | **WiFi (optional, built-in or external)** |

### GENERAL AND COMPLIANCE

| | |
|---|---|
| Ingress protection | **IP21** |
| Operating temperature | **−10 to +60 °C** |
| Relative humidity | **5–95 % (non-condensing)** |
| Storage temperature | **−15 to +60 °C** |
| Dimensions (H × W × D) | **410 × 336 × 110 mm** |
| Net weight | **8.4 kg** |
| Max operating altitude | **4,000 m (derating above 1,000 m)** |
| Warranty | **2 years** |
| Certification | **CE, RoHS (as marked on the unit)** |
| Packing | **Single export carton** |

## NOTES

- All values are transcribed from the supplied EU-model parameters table; no certificate numbers are printed there, so only the CE and RoHS marking on the unit is stated.
- Parallel quantity, battery voltage and overload profile differ between the four models and are not interchangeable.
- Packing is described by method only; carton dimensions and gross weight are supplied with the shipping documents.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement. Draft R01 for internal review.