

Energy + Home Automation

KOPP.Kuara 10.0-3-H



Product features

- ✓ True 3 phase emergency power
- ✓ Black start capable
- ✓ Shift load capable up to 30% between phases
- ✓ Off-grid capable
- ✓ Wide voltage range 160-950V MPPT range
- ✓ DC Switch
- ✓ Anti-islanding protection
- ✓ PV reverse polarity protection
- ✓ Insulation monitoring
- ✓ Residual current monitoring
- ✓ AC short-circuit protection
- ✓ Leakage current protection

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KOPP

| Product | |
|----------------------|----------------------------|
| Article number: | 433410005 |
| Product description: | 3 Phase Hybrid AC Inverter |
| EAN-Code: | 4008224675123 |

| Dimensions, Weight, Color | |
|---------------------------|--------------------|
| Height / Width / Depth: | 449 x 519 x 198 mm |
| Weight: | 28 kg |
| Color: | blue |

Specifications

| Input PV | |
|--|---------|
| Max. Recommended DC Power [W]: | 13000 |
| Max. DC Voltage [V]: | 1000 |
| Nominal DC Operating Voltage [V]: | 720 |
| Max. Input Current (input A / input B) [A]: | 26 / 14 |
| Max. Short Circuit Current (input A / input B) [A] | 32 / 16 |
| MPPT Voltage Range [Vdc]: | 160–950 |
| MPPT Voltage Range (full load) [Vdc]: | 280–800 |
| Start-up Voltage [V]: | 160 |
| No. of MPP Trackers: | 2 |
| Strings Per MPP Tracker: | 2+1 |

| Output AC | |
|---|--|
| Nominal AC Power [W]: | 10000 |
| Max. Apparent AC Power [VA]: | 11000 |
| Rated Grid Voltage [Vac]: | 400/230; (320–460) |
| Rated Grid Frequency [Hz]: | 50/60 ± 5 |
| Max. AC Current [A]: | 16 |
| Displacement Power Factor: | 1 (Adjustable from 0.8 leading to 0.8 lagging) |
| Total Harmonic Distortion (THDi, Nominal output): | < 3% |
| Max output fault current (A): | 150 A at 0.5 ms |
| Parallel operation: | yes at max. 10 PCS |
| Unbalance output: | yes |
| Max. output overcurrent protection (A): | 45 |

| Battery | |
|------------------------------------|-----------------|
| Battery Type: | Lithium battery |
| Battery voltage (V): | 180–600 |
| Full AC load Battery voltage[V]: | 410 |
| Max. Charge/ discharge current[A]: | 26.0 |
| Communication interface: | CAN/RS485 |

| Input AC | |
|--|--|
| Max. AC power [VA]: | 16000 |
| Max. AC current [A]: | 24.2 |
| Rated grid voltage (AC voltage range) [V]: | 400/230; (320–460) |
| Rated Grid Frequency [Hz]: | 50/60 ± 5 |
| Power factor: | 1 (Adjustable from 0.8 leading to 0.8 lagging) |
| AC Inrush current (A): | 15 A at 0.5 ms |

| EPS Output | |
|--|--|
| Nominal AC power [W]: | 10000 |
| Max. AC power (60s) [VA]: | 15000 |
| EPS rated voltage [V], Frequency [Hz]: | 400V/230VAC;380V/220VAC,3L/N/PE, 50/60 |
| EPS Max current [A] (Per phase): | 22.7 |
| Power factor: | 1 (Adjustable from 0.8 leading to 0.8 lagging) |
| Switch time: | <20 ms |
| THDV: | <3% at rated power |

| Protection | |
|------------------|----------------------|
| MPPT Efficiency: | 99,9% |
| Euro-efficiency: | 97,3% |
| Max. Efficiency: | H3 98,0% / AC3 97,8% |

| Protection | |
|--|-----------------------------|
| PV Reverse Polarity Protection: | yes |
| Battery reverse Protection: | yes |
| Anti-islanding protection: | yes |
| Output short protection: | yes |
| Leakage current protection: | yes |
| Insulation resistor detection: | yes |
| Over voltae category: | III (AC side), II (DC side) |
| Over-current protection / Over-temperature protection: | yes |
| AC/DC surge protection: | Type II |
| DC Switch: | optional |
| AFCI Protection: | optional |
| String Monitor function: | optional |

| Standard | |
|----------------|---|
| Safety: | EN 62109-1, EN 62109-2, EN 62477-1 |
| EMC: | EN 61000-6-1/2/3/4 |
| Certification: | EN 50549-1, Tor Erzeuger Typ A, OVE-DIRECTIVE R25, C10/11, VDE-AR-N 4105, UTE C15-712-1, NRS 097-2-1, NTS TypeA, CEI 0-21 |

| General Data | |
|--------------------------------------|--|
| Installation: | wall-mounted |
| Operating Temperature Range: | -25 – +60°C (derating at +45) |
| Storage Temperature Range: | -40 – +70°C |
| Storage/Operation relative humidity: | 0 %–95 % (without condensation) |
| Altitude (m): | <2000 |
| Protectiv Class: | I |
| Ingress protection: | IP65 (for outdoor use) |
| Standby consumption (W): | 200 W for hot standby, 15 W for cold standby |
| Cooling Concept: | FAN cooling |
| Inverter topology: | Non-isolated |
| Communication: | Ethernet, Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN&RS485), RS485 |
| LCD display: | Backlight 16*4 character |

