



POWER STORAGE DC 8.0 | 10.0

DC-COUPLED HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL INSTALLATIONS

HIGH EFFICIENCY

- Two independent MPP-trackers, switchable to parallel mode
- Input for up to 2 high voltage batteries (available from autumn 2020)
- European efficiency > 98%
- Dynamic power adjustment- also suitable for zero-feed-in systems
- Intelligent energy storage management with forecast based charging
- Exact and fast control behaviour

UNIQUE FLEXIBILITY

- 3-phase feed-in
- Wide MPP range for flexible string planning and easy repowering
- Max-Power Control - self-learning shade management
- Cascadable, expandable and combinable with existing PV-systems
- Hybrid-ready charging of the battery also with external AC sources
- Emergency power capability in conjunction with the RCT Power Switch
- Simple design with the RCT Power Designer - design tool

EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

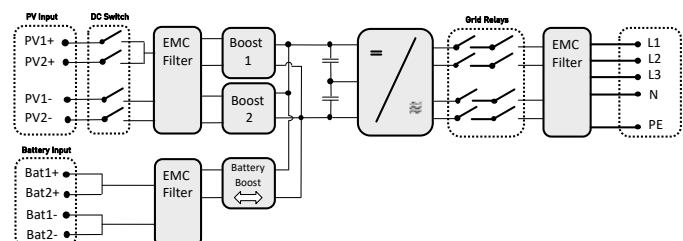
USER FRIENDLY COMMUNICATION

- Multi-information LCD-display
- WIFI and LAN
- RCT PORTAL for user-friendly system monitoring
- Multi-function communication board for connection of various devices
- Suitable for Wallbox chargers, heating elements, heat pumps and energy management systems

INNOVATIVE DESIGN

- Silent, maintenance free fanless cooling
- Durable aluminium housing
- With 26 kg a lightweight in its category
- Sustainable due to reduced use of raw materials

BLOCK DIAGRAM



YOUR LOCAL MERCHANT

INFORMATION & DISTRIBUTION



Power Storage DC**8.0****10.0**

Order Number

IHP080N1AE0

IHP100N1AE0

DC-INPUT

| | | |
|-----------------------------|--------------------------------------|---------|
| Max. recommended DC power | 13200 W | 16500 W |
| MPPT | 2 (paralleling possible) | |
| Input per MPPT | 1 | |
| Maximum DC current per MPPT | 14 A (28 A in parallel mode) | |
| Rated DC voltage | 700 V | |
| DC start up voltage / power | 150 V / 40 W | |
| DC voltage range | 140 V ... 1000 V | |
| MPP voltage range | 380 V ... 800 V | |
| Maximum voltage DC | 1000 V | |
| Connector type | Weidmüller PV-Stick (MC4 compatible) | |

BATTERY-INPUT

| | |
|------------------------------------|--------------------------------------|
| DC voltage range | 120 V ... 600 V |
| Maximum charge / discharge current | 25 A / 25 A |
| Connector type | Weidmüller PV-Stick (MC4 compatible) |

AC-OUTPUT (GRID MODE)

| | | |
|-----------------------------------|--|----------|
| Rated AC output power | 8000 W | 9900 W |
| Maximum active power | 8000 W | 9900 W |
| Maximum apparent power | 10500 VA | 10500 VA |
| Nominal AC current per phase | 11,6 A | 14,5 A |
| Maximum AC current per phase | 15,2 A | 15,2 A |
| Rated frequency | 50 Hz / 60 Hz | |
| Frequency range | 45 Hz ... 65 Hz | |
| Max. switch-on current | 22 A, 0,1ms | |
| Max. fault current (RMS) | 285 mA | |
| Rated AC voltage | 230V / 400 V (L1, L2, L3, N, PE) | |
| AC voltage range | 180V ... 290V | |
| Total harmonic distortion (THD) | < 2% at rated power | |
| Reactive power factor (cos phi) | 1 (adjustable range 0,8 cap....0,8 ind) | |
| Earth fault protection | RCD | |
| DC current injection | < 0,5% In | |
| Required phases, grid connections | 3 (L1, L2, L3, N, PE) | |
| Number of feed-in phases | 3 | |
| Type of AC connection | Spring clamps | |

PERFORMANCE

| | | |
|--|-----------------|--------|
| Stand-by consumption with discharged battery storage ²⁾ | 6 W | |
| Maximum efficiency (PV2AC) | 98,60% | 98,60% |
| European efficiency (PV2AC) | 98,33% | 98,35% |
| Average efficiency PV2AC ¹⁾ | 97,78% | 97,89% |
| Average efficiency PV2Bat ¹⁾ | 98,00% | 98,00% |
| Average efficiency AC2Bat ¹⁾ | 97,33% | 97,44% |
| Average efficiency Bat2AC ¹⁾ | 97,36% | 97,48% |
| Average delay time / settling time ²⁾ | 0,1s / 0,4s | |
| Topology | Transformerless | |

¹⁾ Average efficiencies in combination with a RCT Power Battery 11.5 and UmpNenn ²⁾ Measurement results according to efficiency guidelines for RCT Power Storage 6.0 with RCT Power Battery 11.5

OTHERS

| | |
|-------------------------------------|---|
| PV – DC-switch | Integrated |
| DC- / AC- overvoltage category | II / III |
| Data interface | WIFI, LAN, RS485, Multifunctional dry contact, 4 x digital in, 2 x digital in/out |
| Display | LCD dot matrix 128 x 64 with backlight |
| Cooling | Convection |
| IP degree of protection | IP 42 |
| Max. operating altitude | 2000 m |
| Max. relative humidity | 5 – 85% (non condensing) |
| Typical noise | < 35 dB |
| Operating temperature range | -25°C ... 60°C (40° at full load) |
| Type of installation | Wall mounting |
| Dimensions (height x width x depth) | 570 x 585 x 200 mm |
| Weight | 26 kg |

SAFETY / STANDARDS

| | |
|--------------------|--|
| Safety class | 1 |
| Overload behaviour | Working point adjustment |
| Certificates | CE, VDE-AR-N 4105:2018-11, EN 50549 |
| EMC | EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3 |
| Safety | EN/IEC62109-1, EN/IEC62109-2 |