



POWER STORAGE DC 4.0 | 6.0

DC-COUPLED HYBRID INVERTER FOR
RESIDENTIAL AND COMMERCIAL INSTALLATIONS

HIGH EFFICIENCY

- Two independent MPP-trackers, switchable to parallel mode
- Transformerless topology
- Very high efficiency
- Input for high voltage battery
- 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

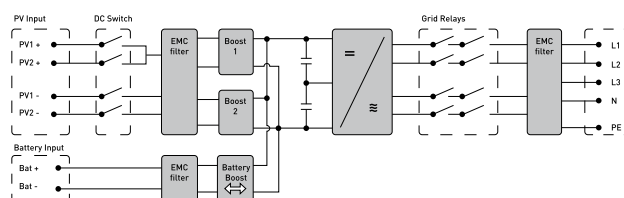
USER FRIENDLY COMMUNICATION

- 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
- IP42 protection: Suitable for indoor installation

BLOCK DIAGRAM



YOUR LOCAL MERCHANT

INFORMATION & DISTRIBUTION



Power Storage DC**4.0****6.0**

Order Number

IHPO40N1AE0

IHP060N1AE0

DC-INPUT

Max. recommended DC power	6600 W	9900 W
MPPT	2 (paralleling possible)	
Input per MPPT	1	
Maximum DC current per MPPT	12 A (24 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	265 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	20 A / 20 A	
Maximum charge / discharge power	9220 W / 4000 W	9220 W / 6000 W
Connector type	Weidmüller PV-Stick (MC4 compatible)	

AC-OUTPUT (GRID MODE)

Rated AC output power	4000 W	6000 W
Maximum active power	4000 W	6000 W
Maximum apparent power	6300 VA	6300 VA
Nominal AC current per phase	5,8 A	8,7 A
Maximum AC current per phase	9,1 A	9,1 A
Rated frequency	50 Hz / 60 Hz	
Frequency range	45 Hz ... 65 Hz	
Max. switch-on current	13 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)	
Anti-islanding operation	Yes	
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	
Grid voltage monitoring	3-phase	
Type of AC connection	Spring clamps	

PERFORMANCE

Stand-by consumption	< 4,0 W	
Maximum efficiency (PV – grid)	98,16%	
European efficiency (PV – grid)	97,6%	97,7%
Maximum efficiency (PV – battery – grid)	94,4%	
Topology	Transformerless	

OTHERS

PV – DC-switch	Integrated
DC overvoltage category	II
AC overvoltage category	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

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