

POWER STORAGE DC 8.0 | 10.0

DC-COUPLED HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS









HIGH EFFICIENCY

- Two independent MPP-trackers, switchable to parallel mode
- European efficiency > 98 %
- Input for high voltage battery
- Suitable for dynamic power adjustment
- Intelligent energy storage management
- with forecast based chargingExact 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

Hochvolttechnologie vom Bodensee

Technology and Design Made in Germany

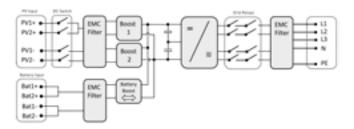
USER FRIENDLY COMMUNICATION

- Multi-information LCD-display
- LAN and WLAN
- RCT Power 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 cooling
- Durable aluminium housing
- With 32 kg a lightweight in its category
- IP42 protection: Suitable for indoor installation

BLOCK DIAGRAM





POWER STORAGE DC

DC INPUT

Max. recommended DC power (South / East-West) ¹⁾	10,8 kW / 12 kW	13,5 kW / 15 kW	
MPPT	2 (paralleling possible)		
Input per MPPT	1		
Maximum DC current per MPPT	14 A (28 A in parallel mode)		
Max. Short circuit current PV input (Iscmax)	18 A (36 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		
BATTERY INPUT			
DC Voltage Range	120 V 600 V		
Maximum charge / Discharge current	25 A / 25 A		
Connector-type	Weidmüller PV-Stick		
AC OUTPUT (GRID-MODE)			
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Real AC output power	8000 W	9900 W	
Aaximum 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		
requency range	45 Hz 65 Hz		
Max. switch-on current	15,2 A, 0,1ms		
Max. fault current (RMS)	285 mA		
Rated AC voltage	230V / 400 V (L1, L2, L3, N, PE)		
AC voltage range	180 V 290 V		
Fotal harmonic distortion (THD)	< 2% at rated power		
Reactive power factor (cos phi)	1 (adjustable range 0,8 cap0,8 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⁾	6,0 W		
Maximum efficiency (PV2AC)	98,60 %	98,60 %	
European efficiency (PV2AC)	98,33 %	98,35 %	
Average efficiency PV2AC ³⁾	97,78 %	97,89 %	
Average efficiency PV2Bat ³⁾	98,00 %	98,00 %	
Average efficiency AC2Bat ³⁾	97,33 %	97,44 %	
Average efficiency Rozbat ³	97,36 %	97,48 %	
Average delay time / settling time	0,1s / 0,4s	י טד, זע	
	transformerless		
	transformeriess		
OTHERS			
PV-DC- switch	integrated		
DC- / AC- overvoltage category	11 / 111		
Data interface	WLAN, 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		
P degree of protection	IP 42		
Max. operating altitude	2000 m		
Max. relative humidity	5 - 85 % (non condensing)		
lypical noise	< 35 dB		
Dperating temperature range	-25°C 60°C (40°C at full load)		
Dimensions (height x width x depth)	570 x 585 x 200 mm		
Veight	32 kg		
SAFETY / STANDARDS			
Safety class			
Dverload 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		
-1410			
Safety	EN/JEC62109-1 EN/JEC62100-2	EN/IEC62109-1, EN/IEC62109-2 10 years	

¹⁾ Depending on orientation, inclination and location of installation.
²⁾ Measurement results according to efficiency guidelines for RCT Power Storage 10.0 with RCT Power Battery 11.5
³⁾ Average efficiencies in combination with a RCT Power Battery 11.5 and UmppNenn

