

# POWER STORAGE DC 8.0 I 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 adjustmentIntelligent 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

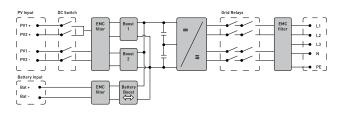
#### USER FRIENDLY COMMUNICATION

- Multi-information LCD-display
- 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	<b>8.0</b> IHP080N1AE0		
Order number	IHPU&UNIAEU	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 150 V / 40 W		
DC start up voltage / power 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 Weidmüller PV-Stick (MC4 compatible	)	
Connector type			
AC-OUTPUT (GRID MODE)			
	8000 W	9900 W	
Rated AC output power Maximum active power	8000 W	9900 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	15,2 A, 0,1ms		
Max. fault current (RMS) Rated AC voltage	285 mA 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 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	6 W		
battery storage <sup>2)</sup>	•		
Maximum efficiency (PV2AC)	98,60%	98,60%	
European efficiency (PV2AC)	98,33%	98,35%	
Average efficiency PV2AC <sup>1)</sup>	97,78%	97,89%	
Average efficiency PV2Bat <sup>1)</sup>	98,00%	98,00%	
Average efficiency AC2Bat <sup>1)</sup>	97,33%	97,44%	
Average efficiency Bat2AC <sup>1)</sup>	97,36%	97,48%	
Average delay time / settling time $^{\scriptscriptstyle 2)}$	0,1s / 0,4s		
Topology	Transformerless		
<sup>1)</sup> Average efficiencies in combination with a F OTHERS	CI Power Battery 11.5 and UmppNenn <sup>27</sup> Measurement results according	g to efficiency guidelines for RCT Power Storage 6.0 with RCT Power Battery 11.5	
PV – DC-switch	Integrated		
DC- / AC- overvoltage category			
Data interface	WIFI, LAN, RS485, Multifunctional dry o	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 5		
Max. relative humidity Typical noise	5 – 85% (non condensing) < 35 dB		
Operating temperature range	-25°C 50°C (40°C at full load)		
Type of installation	Wall mounting		
Dimensions (height x width x depth)	570 x 585 x 200 mm		
Weight	32 kg		
SAFETY / STANDARDS			
Safety class	1		
Overload behaviour	ı Working point adjustmen		
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		
Warranty	10 years		