



## POWER STORAGE DC 5.0 | 6.0 SP

### SINGLE-PHASE HYBRID OUTDOOR INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



high efficiency



up to 3 roof  
orientations



quick and easy  
installation



everything needed  
from one source

#### HIGH EFFICIENCY

- Three independent MPP-trackers
- Input for high voltage battery
- Suitable for dynamic power adjustment
- Intelligent energy storage management with forecast based charging
- Exact and fast control behaviour

#### UNIQUE FLEXIBILITY

- DC & AC Coupling compatible
- 1-phase feed-in
- Up to 2 high voltage batteries per inverter
- 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

#### EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT RESS App solution

#### USER FRIENDLY COMMUNICATION

- LAN and WLAN
- RCT Power Portal for user-friendly system monitoring
- Suitable for wallbox chargers, heating elements, heat pumps and energy management systems

#### INNOVATIVE DESIGN

- Silent, maintenance free cooling
- Durable aluminium housing
- With 22 kg a lightweight in its category
- IP65 protection: Suitable for outdoor installation

## POWER STORAGE DC

## 5.0 SP

## 6.0 SP

### DC INPUT

Max. recommended DC power	9300 W
MPPT	3
Input per MPPT	1
Max. DC current per MPPT	16 A
Max. Short circuit current PV input (Iscmax)	20 A
Rated DC voltage	360 V
DC start up voltage / power	120 V / 50W
MPP voltage range	90 V ... 580 V
Max. voltage DC	600 V
Connector type	Phoenix XLIX

### BATTERY INPUT

DC Voltage range	120 V ... 520 V
Max. charge / discharge current	25 A / 25 A
Number of battery input	2
Connector-type	MC4 Evo2

### AC OUTPUT (GRID-MODE)

Gird connection	1 phase	
Real AC output power	5000 W	6000 W
Max. active power	5000 W	6000 W
Max. apparent power	5000 VA	6000 VA
Max. AC input apparent power from grid	5000 VA	6000 VA
Nominal AC current per phase	21,7 A	26,1 A
Max. AC current per phase	21,7 A	26,1 A
Rated frequency	50 Hz	
Frequency range	45 Hz ... 55 Hz	
Rated AC voltage	230 V, L/N/PE	
AC voltage range	184 ... 265 V	
Total harmonic distortion (THD)	< 3 %	
Reactive power factor (cos phi)	1 (adjustable range 0,8 cap....0,8 ind )	
Earth fault protection	RCD	
Type of AC connection	quick connection plug	

### AC OUTPUT (BACK-UP MODE)\*

Max. AC output apparent power	5000 VA	6000 VA
Rated AC voltage	230 V, L/N/PE	
Max. AC output current	21,7 A	26,1 A
Rated frequency	50 Hz	

### PERFORMANCE

Stand-by consumption	< 5 W
Max. efficiency (PV2AC)	97,1 %
Max. efficiency (Battery2Grid)	97,1 %
European weighted efficiency	96,6 %
Topology	transformerless

### OTHERS

Dark start function	yes
PV disconnect switch	integrated
Data interface	BAT/CAN, WLAN, LAN, RS485
Display	LED indicator
Cooling	convection
IP degree of protection	IP 65
Max. operating altitude	4000 m
Max. relative humidity	0 - 100 %
Typical noise	< 30 dB
Operating temperature range	-25°C ... 60°C (derating above 45°C)
Dimensions (height x width x depth)	445 x 605 x 165 mm
Weight	22 kg

### SAFETY / STANDARDS

Safety	EN/IEC 62109-1, EN/IEC 62109-2
Grid support regulation	EN 50549-1, EN 50549-10, RD 647/UNE 217001/UNE 217002/NTS 631 Type A, G99, CEI 0-21, AS/NZS4777.2
EMC	IEC/EN 61000-6-1/2/3/4

### WARRANTY

Warranty	10 years
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