

POWER STORAGE DC 6.0 SP

DC-COUPLED 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

- 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
- Simple design with the RCT Power Designer - design tool

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

Technology and Design
Made in Germany

POWER STORAGE DC	6.0 SP
DC INPUT	
Max. recommended DC power	9300 W
MPPT	3
Input per MPPT	1
Max. DC current per MPPT	14 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	80 V ... 520 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	Weidmüller WM4
AC OUTPUT (GRID-MODE)	
Gird connection	1 phase
Real AC output power	6000 W
Max. active power	6000 W
Max. apparent power	6000 VA
Max. AC input apparent power from grid	3000 VA
Nominal AC current per phase	26,1 A
Max. AC current per phase	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	6000 VA
Rated AC voltage	230 V, L/N/PE
Max. AC output current	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	IEC 62109 or AS/NZS 62109
Grid support regulation	AS/NZS 4777.2
EMC	IEC 61000
Safety- Storage System	IEC 62619, ANS/NZS 62368, IEC 61000
WARRANTY	
Warranty	10 years

* Backup power output via RCT Power Switch Box

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