

EUPD RESEARCH
TOP BRAND PV
INVERTERS
GERMANY
2024

POWER STORAGE AC 6.0

AC-COUPLED BATTERY INVERTER FOR THE EXPANSION OF PV SYSTEMS WITH PV STORAGE SYSTEMS

high efficiency

up to 2 roof orientations

quick and easy installation

everything needed from one source

HIGH EFFICIENCY

- Transformerless topology
- Maximum self-consumption by battery management based on PV- and load forecast
- High voltage battery input

UNIQUE FLEXIBILITY

Optimised for retrofitting battery storage to existing PV-plants

- 3-phase output
- for 2 - 6 RCT Power Battery stacks
- Maximum battery current 20 A
- Maximum charge and discharge power up to 6 kW

EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

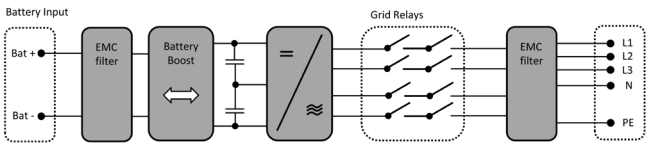
USER FRIENDLY COMMUNICATION

- 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 and maintenance free cooling
- Durable aluminium housing
- IP65 protection: Suitable for indoor and outdoor

BLOCK DIAGRAM



POWER STORAGE AC 6.0

BATTERY INPUT

DC Voltage Range	120 V ... 600 V
Maximum charge / Discharge current	20 A / 20 A
Maximum charge / Discharge power	6000 W
Connector-type	Weidmüller PV-Stick

AC OUTPUT (GRID-MODE)

Real AC output power	6000 W
Maximum active power	6000 W
Maximum apparent power	6300 VA
Nominal AC current per phase	8,7 A
Maximum AC current per phase	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	180 V ... 290 V
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 (Bat2AC)	96,62 %
European efficiency (Bat2AC)	96,41 %
Topology	transformerless

OTHERS

DC overvoltage category	II
AC overvoltage category	III
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
IP degree of protection	IP 65
Max. operating altitude	2000 m
Max. relative humidity	4- 100 % (non condensing)
Typical noise	< 35 dB
Operating temperature range	-25°C ... 60°C (40°C at full load)
Type of installation	wall mounting
Dimensions (height x width x depth)	570 x 440 x 200 mm
Weight	22 kg

SAFETY / STANDARDS

Safety class	I
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
Warranty	10 years

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RCT power