



## POWER STORAGE AC 4.0 | 6.0

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

### 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

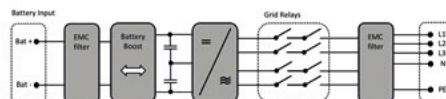
### USER FRIENDLY COMMUNICATION

- 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 installatio

### BLOCK DIAGRAM



Power Storage AC	4.0	6.0
Order number	IAP040N1AE0	IAP060N1AE0

#### BATTERY-INPUT

DC voltage range	120 V ... 600 V	
Maximum charge / discharge current	20 A / 20 A	
Maximum charge / discharge power	4000 W	6000 W
Connector type	Weidmüller PV-Stick (MC4 compatible)	

#### AC-OUTPUT

Rated AC output power	4000 W	6000 W
Maximum active power	4000 W	6000 W
Maximum apparent power	6300 VA	6300 VA
Nominal AC current per phase	5,8 A	8,7 A
Maximum AC current per phase	9,1 A	9,1 A
Rated frequency	50 Hz / 60 Hz	
Frequency range	45 Hz ... 65 Hz	
Max. switch-on current	13 A, 0,1 ms	
Max. fault current (RMS)	285 mA	
Rated AC voltage	230 V / 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% I <sub>n</sub>	
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 (battery - grid)	96,62%
Maximum efficiency (grid-battery)	96,41%
Topology	Transformerless

#### OTHERS

DC overvoltage category	II
AC overvoltage category	III
Data interface	WIFI, 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	IP65
Max. operating altitude	2000 m
Max. relative humidity	4 - 100% (non condensing)
Typical noise	< 35 dB
Operating temperature range	-25°C ... 60°C (40° 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	1
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