

PowerAll

All-in-One for Home ESS

5 / 10 / 15 / 20 / 25 / 30 kWh



SINGLE-PHASE

- Modular and integrated DC-coupled energy storage
- Flexible battery capacity expansion
- User-friendly one-button battery operation
- Compatible with high current PV panels

MPPT

- Maximal battery energy with pack optimization
- Extremely low battery self-consumption in sleep mode
- Switchover time to critical loads less than 10 ms



BATTERY	PA5	PA10	PA15	PA20	PA25	PA30
Battery Module	1	2	3	4	5	6
Battery Energy [1]	5.04 kWh	10.08 kWh	15.12 kWh	20.16 kWh	25.2 kWh	30.24 kWh
Battery Capacity	105AH	210AH	315AH	420AH	525AH	630AH
Weight	85 kg	138 kg	191 kg	244 kg	297 kg	350 kg
Dimension (L*D*H)	580*420*430 mm	580*420*615 mm	580*420*800 mm	580*420*985 mm	580*420*1170 mm	580*420*1355 mm
Battery Type	LiFePO4					
Battery Rated Voltage	48V					
Battery Working Voltage Range	37.5 ~ 54.75V					
Maximum Charging Current	100A					
Maximum Discharging Current	100A					
DOD (25°C)	80%					
Designed Life-Span [3]	8000 Times					
Parallel Quantity	6					
Operating Temperature [2]	Charge: 0 ~50°C / Discharge: -15 ~ 55°C					
Operation Humidity	5% ~ 85%					
Nominal Operation Altitude	< 2000m					
Cooling Mode	Force Air Cooling					
Noise	60 dB(A)					
Ingress Protection Rating	IP20					
Operation Environment	Indoor					
Installation Method	Horizontal					

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5 °C & 45 °C to 55 °C

[3] Condition apply. Refer to Warranty Letter

INVERTER	EU	US
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PV CHARGE

Solar Charge Type	MPPT	
Maximum Output Power	5 kW	
PV Charging Current Range	0 ~ 80A	
PV Operating Voltage Range	120 ~ 500V	
MPPT Voltage Range	120 ~ 450V	

AC CHARGE

Maximum Charge Power	2100W	
AC Charging Current Range	0 ~ 60A	0 ~ 40A
Rated Input Voltage	220V/230V	110V/120V
Input Voltage Range	90V ~ 280V	90V ~ 140V

AC OUTPUT

Rated Output Power	5 kW	
Maximum Output Current	40A	
Frequency	50Hz / 60Hz	
Overload Current	40A	

INVERTER OUTPUT

Rated Output Power	5 kW	
Maximum Peak Power	10 kVA	7 kVA
Power Factor	1	
Rated Output Voltage (Vac)	230V	120V
Frequency	50Hz / 60Hz	
Auto Switch Period	< 15ms	
THD	< 3%	
Communication Interface	USB/RS485(WIFI/G PRS)Dry node control	

GENERAL DATA

Communication	RS485 (Optional: CAN / WIFI)	
Charging Temperature Range	0 ~ 50°C	
Discharging Temperature Range	-15 ~ 55°C	
Operation Humidity	5% ~ 85%	
Nominal Operation Altitude	< 2000m	
Cooling Mode	Force Air Cooling	
Noise	60 dB(A)	
Ingress Protection Rating	IP20	
Operation Environment	Indoor	
Installation Method	Horizontal	
Certifications	Cell: UN38.3 / IEC62619 / UL 1642 Battery Pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request.)	

