



RESIDENTIAL ALL-IN-ONE ENERGY STORAGE SYSTEM AS-BSH07 SERIES

CHARACTERISTICS

All-in-one: Inverter + High voltage battery system
Battery rated energy: 5.1kWh - 30.7kWh
Inverter power classes: 4.0kW - 15.0kW
Three-phase, 2 MPPT, High voltage
Product Name Code (PNC): AS-BSH07C-4.0K-2 |
AS-BSH07C-5.0K-2 | AS-BSH07C-6.0K-2 |
AS-BSH07C-8.0K-2 | AS-BSH07C-10.0K-2 |
AS-BSH07C-12.0K-2 | AS-BSH07C-15.0K-2



**EXTRA PEACE OF MIND:
10 YEARS PRODUCT
WARRANTY**

ADVANTAGES

FLEXIBLE

- Low start-up voltage for longer operation
- 200% oversizing and 200% PV input power
- Max. 20A DC input current for solar panel
- Max. 50A charge / discharge current
- Wireless meter compatibility

RELIABLE

- IP66 rated ingress protection
- Type II SPD on AC&DC side
- Up to 200% EPS output for 10s
- UPS-level switchover time <10ms
- Micro-grid support for real-time grid/off-grid balancing

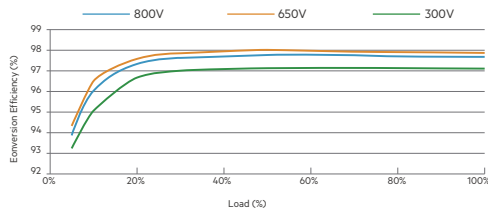
USER-FRIENDLY

- Global MPP scan for optimal energy harvest
- Smart loads management
- AI ready, forecasting solar generation and home consumption for smart energy management strategy control
- Cycle life > 6000 cycles
- AFCI protection (optional)

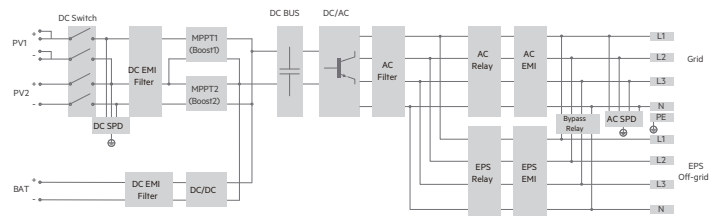
System Configuration



Efficiency Curve



Circuit Diagram



Rated power	4 kW / 5 kW / 6 kW / 8 kW / 10 kW / 12 kW / 15 kW					
Number of batteries	1	2	3	4	5	6
Rated energy ¹	5.1 kWh	10.2 kWh	15.3 kWh	20.4 kWh	25.6 kWh	30.7 kWh
Usable energy ²	4.6 kWh	9.2 kWh	13.8 kWh	18.4 kWh	23.0 kWh	27.6 kWh
Max. power ³	5.1 kW	10.2 kW	15.0 kW	15.0 kW	15.0 kW	15.0 kW
Ingress protection	IP66					
Operation temperature range	-30 ~ 53°C					
Relative humidity	4 ~ 100% (Condensing)					
Max. operation altitude	3000 m					
Net weight ⁴	97.2 kg	144.2 kg	191.2 kg	238.2 kg	144.2 kg / 146.2 kg	191.2 kg / 146.2 kg
Dimensions (W x H x D)	730 × 963 × 209.5 mm	730 × 1281 × 209.5 mm	730 × 1599 × 209.5 mm	730 × 1917 × 209.5 mm	730 × 1281 × 209.5 mm / 730 × 1120.5 × 150 mm	730 × 1599 × 209.5 mm / 730 × 1120.5 × 150 mm
Display	LCD					
Cooling concept	Natural cooling					
Topology	Non-isolated					
Communication interface	RS485, Pocket-X, USB, CAN, DO, DI					

- Test conditions: 25°C, 100% depth of discharge (DoD), 0.2C charge & discharge
- System usable energy may vary with inverter different setting
- The max.charge/discharge power must not exceed the rated output power (the table takes the maximum power inverter as an example)
- Different inverter have different weights. The heaviest one is taken as example

AS-BSH07C-4K-2 | AS-BSH07C-5K-2 | AS-BSH07C-6K-2 | AS-BSH07C-8K-2 | AS-BSH07C-10K-2 | AS-BSH07C-12K-2 | AS-BSH07C-15K-2

EPS (OFF-GRID) OUTPUT (WITH BATTERY)							
Rated EPS output voltage, frequency	230 V / 400 V, 50 Hz / 60 Hz						
Rated EPS output power	4 kVA	5 kVA	6 kVA	8 kVA	10 kVA	12 kVA	15 kVA
Peak EPS output power	2 times of rated power, 10s						
Switchover time	< 10 ms						
EFFICIENCY							
Max. efficiency	98.0%						
European efficiency	97.7%						
ENVIRONMENT LIMIT							
Ingress protection	IP66						
Operation temperature range	-35 ~ 60°C (> 45°C derating)						
Max. Operation altitude	3000 m						
Relative humidity	4~ 100% RH (condensing)						
Overvoltage category	Mains: III , Battery: II , PV: II						
GENERAL							
Dimensions (W × H × D)	717 × 405 × 209.5 mm						
Net weight	35 kg					37 kg	
Cooling concept	Natural cooling						
Communication interfaces	RS485, Pocket-X, CAN, DO, DI						
Power consumption (night)	< 40 W for hot standby, < 5 W for cold standby						
Topology	Non-isolated						
Certifications	IEC62109-1 / IEC62109-2, VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / EN50549 / CEI 0-21						
PROTECTION							
Protections	Over voltage protection, DC reverse-polarity protection, Residual current detection, Over temperature protection, DC isolation protection, Grid monitoring, DC injection monitoring, Back feed current monitoring						
Surge protection	DC: Type II , AC: Type II						
Arc-fault circuit interrupter (AFCI)	Optional						

1. The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage the inverter
2. Input voltage exceeding the MPPT voltage range may trigger inverter protection
3. The AC frequency range may vary from different country codes
4. Test conditions: 25°C, 100% depth of discharge (DoD), 0.2C charge & discharge
5. System usable energy may vary with inverter different settings
6. Discharge: In case of the battery cell's temperature range of -20°C~10°C and 45°C~53 °C, the discharge current will be reduced; Charge: In case of the battery cell's temperature range of 0°C~25°C and 45°C~53°C, the charge current will be reduced. Product charge or discharge power depends on the actual temperature of the battery pack

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SOLAR SOLUTIONS AG

Riedweg 3 | 6418 Rothenthurm | Switzerland
www.aeg-solar.com | info@aeg-solar.com

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