



NEW!

RESS-10.55

All-In-One Residential ESS

Max. 5500VA/5500W

10.55 kWh Capacity

48VDC



Key Features

- All-In-One system design
- Eliminate your outage anxiety
- More cost efficient than ever
- Compact size, space saving
- 10 ms smooth power backup
- Plug & Play



Multifunctional Control Unit



System Specification

Rated Energy	10.55 kWh (90% DOD)
Nominal Voltage	48 VDC
IP Protection	IP54 (Battery System is IP65)
Dimension (W x D x H)	480 × 280 × 1071 mm
Weight	80 Kg
Operating Temperature Range	-10 °C ~ 50 °C*
Designed Cycle Life	≥6000*
Connection Operation	Up to 6 units in Parallel
Charging Time	2 Hours
Discharge Rate	0.5 C

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

* 6000 life cycle takes approximately 10 years for daily use. Warranty: 2 years.

Inverter Technical Specification

Configuration	Off-grid
Max. PV Input Power	6000 W
Max. PV Input Current	27 A
MPPT Number/Max. input strings number per MPPT	1/1
MPPT Voltage Range	150~430 VDC
Nominal Output Power	5500 VA / 5500 W
Rated Frequency	50 / 60 Hz
Rated Voltage	230 VAC
Phase	Single-Phase
Backup	10ms typical (UPS,VDE)/20ms typical (APL)
Humidity	5% to 95% Relative humidity (Non-condensing)

Recommended PV module configuration*

PV Module Spec (reference)	Total solar input power	Solar input	Q'ty of modules
Maximum Power (Pmaxl): 540 W Max. Power Voltage Vmpp(V): 41.3 V Max. Power Current Imp(A): 13.08 A Open Circuit Voltage Voc(V): 49.2 V Short Circuit Current Isc(A): 13.90 A	2160 W	4 pieces in series	4
	2700 W	5 pieces in series	5
	3240 W	6 pieces in series	6
	3780 W	7 pieces in series	7
	4320 W	8 pieces in series	8
	4860 W	9 pieces in series	9

*If max PV input power demands ≥9000W, 2 units of BAOBAB ESS-10.55 in parallel are suggested (up to 6 units in parallel). This configuration is only for reference as rooftop or solar condition may vary due to different application environment. Contact your service supplier for optimized solution.



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