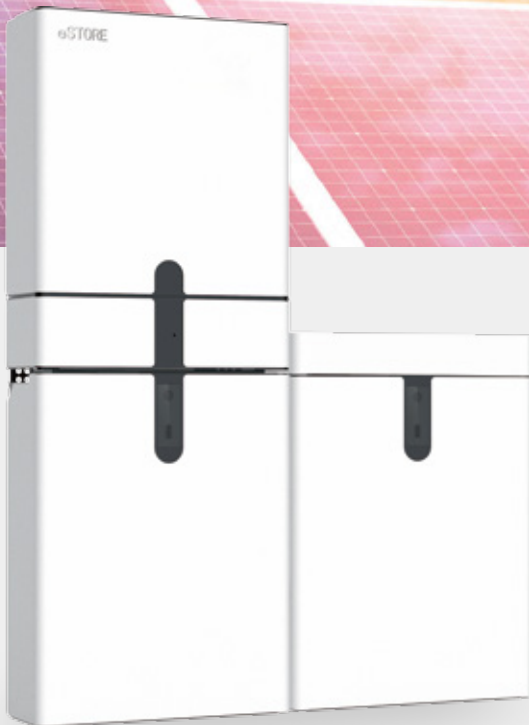





On Grid Energy Storage System (ESS) **COMPLETE SOLUTION** for Residential Applications

eSTORE

Powered by Goodwe



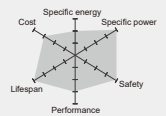
✓ Key Features

-  **High energy density**
-  **Elegant design**
-  **Fast response**
-  **UPS**
-  **Outdoor**
-  **Quick installation**



Real-time Monitoring

All systems can be monitored by **Web and iOS/Android APP.**



Safest Chemistry

AlphaESS uses Li-phosphate for its excellent safety and long lifespan.

Battery Specifications	
Model	eSTORE-BAT-10.3
Battery Type	LFP (LiFePO4)
System Weight	95 kg
Dimension (W x D x H)	610 x 236 x 728 mm
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	10.3 kWh, Up to 2 Batteries (20.6 kWh)
Usable Capacity	9.3 kWh per battery unit
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2 V
Operating Voltage Range	48 ~ 57.6 V
Max. Short-circuit Current	200A
Internal Resistance	≤ 20 mΩ
Cycle Life	≥ 8000
Operation	
Max. Charging Current	100 A (0.5C)
Max. Discharging Current	100 A (0.5C)
Operating Temperature Range	-10 °C ~ 50 °C, 0 °C ~ 40 °C (0.5C)
Humidity	0% ~ 90%
BMS	
Modules Connection	max. 2 batteries in parallel
Capacity	10.3 / 20.6 kWh
Power Consumption	<2 W
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Communication	CAN and RS-485 compatible
Certificate	
Safety	IEC 62619

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

eStore-BAT-10.3 Inverter Option

Inverter	GW5048-EM	GW5048D-ES	GW5000S-BP
PV String Input Data			
Max. allowed PV Power [W]	6500	6000	N/A
Nominal DC Power [W]		5000	
Max. DC Voltage [V]	550	580	
MPPT Voltage Range [V]	230~500	125 ~550	
Starting Voltage [V]	125	150	
Max. DC Current [A]	11/11	11/11	
No. of DC Connectors	2	2	
No. of MPPTs	2	2 (Can Parallel)	
DC Connector	MC4	MC4	
Battery Input Data			
Nominal Voltage [V]	48	48	48
Max. Charging Voltage [V]	≤60 (Configurable)	≤60 (Configurable)	≤60 (Configurable)
Max. Charging Current [A]	50	100	100
Max. Discharging Current [A]	50	100	100
AC Output Data (On Grid)			
Nominal AC Power [VA]	4600	4600	5000
Max. AC Power [VA]	4600	4950	5000
Max. AC Current [A]	21.7	20	21.7
Nominal Output Voltage [V]	230	230	230
Nominal Output Frequency [Hz]	50/60	50/60	50/60
THDi	<3%	<1.5%	<3%
Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)	~1(Adjustable from 0.8 leading to 0.8 lagging)	~1(Adjustable from 0.8 leading to 0.8 lagging)
AC Output Data (Buck-Up)			
Nominal AC Power [VA]	2300	4600	5000
Peak AC Power [VA]	3500, 10 sec	6900, 10 sec	5500, 10 sec
Nominal Output Voltage [V]	230	230	230
Nominal Output Frequency [Hz]	50/60	50/60	50/60
Efficiency			
Max. Efficiency	97.60%	97.60%	95.50%
Europe Efficiency	97.00%	97.00%	/
MPPT Adaptation Efficiency	99.90%	99.90%	/
Protection			
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated
Insulation Monitoring	Integrated	Integrated	Integrated
General Data			
Dimensions (WxHxD) [mm]	347 x 432 x 175	516 x 440 x 184	347 x 432 x 190
Weight [kg]	17	30	18.5
Ambient Temperature Range [°C]	-25~60	-25~60	-25~60
Relative Humidity	0-95%	0-95%	0-95%
Protection Degree	IP65	IP65	IP65
Topology	High Frequency Isolation	Transformerless	Transformerless
Standby Losses [W]	<13	<8	<10
Cooling	Nature Convection	Nature Convection	Nature Convection
Noise Emission [dB]	<25	<25	<25
Display	APP	APP	APP
Communication	RS485; CAN	RS485; CAN	RS485; CAN
Standard Warranty [Years]	5	5	5
Certificates & Standards			
Grid Regulation	AS/NZS 4777.2:2015, G83/2, G100, CEI 0-21, VDE4105-AR-N, VDE0126-1-1, NRS 097-2-1, RD1699, UNE206006, EN50438	VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, CEI 0-21, NRS 097-2-1, EN50438	AS/NZS 4777.2:2015, G83/2, G100, CEI 0-21, RD1699, UNE206006, VDE4105-AR-N, VDE0126-1-1, EN50438
Safety Regulation	IEC62109-1&2, IEC62040-1	IEC62109-1&2; IEC62040-1	IEC62477-1, IEC62040-1
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29



Official Website



Scan to download APP (iOS/Android)



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