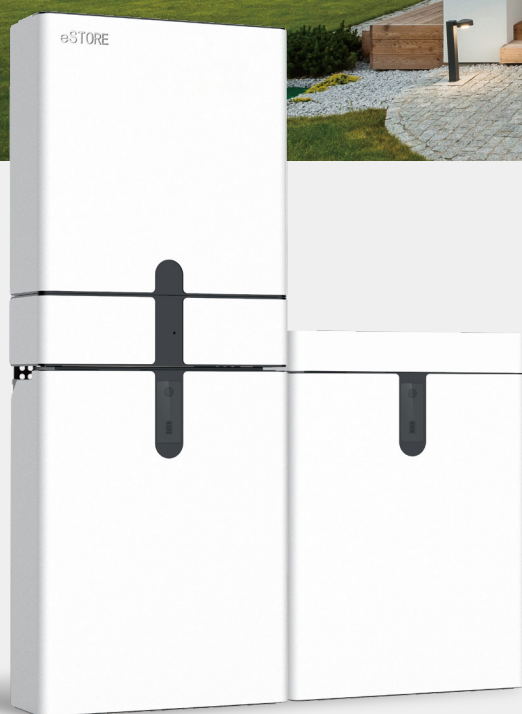


On Grid Energy Storage System (ESS) **COMPLETE SOLUTION** for
Residential Applications

eSTORE

Powered by Goodwe



✓ Key Features



Elegant Design

Unified design of the whole unit



Outdoor

IP65 rating can be installed outdoor



UPS

Uninterrupted power supply in 0.01S



VPP Ready

Compatible with Discover Energy VPP function



High Energy Density

44.6Wh per Litres



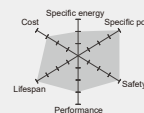
Quick Installation

Plug and play design, significantly reduce installation time



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, ≥ 8000 Cycle Life
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
Internal Resistance	≤ 20 mΩ
Operation	
Max. Charging Current	100 A (0.5C)
Max. Discharging Current	100 A (0.5C)
Operating Temperature Range	-10 °C ~ 50 °C*
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 (Cell)

*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. DC Input Power [W]	6650	6650	N/A
The maximum DC input power for STC [W] (Small-scale Technology Certificates)	7500	8500	
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]	59	59	59
Max. Charging Current [A]	50	100	100
Max. Discharging Current [A]	50	100	100
AC Output Data (On Grid)			
Nominal AC Power [VA]	5000	4600	5000
Max. AC Power [VA]	5000	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]	1604 x 610 x 236.6 mm	1604 x 610 x 236.6 mm	1604 x 610 x 236.6 mm
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
Monitoring	RS485; CAN; Wi-Fi	RS485; CAN; Wi-Fi	RS485; CAN; Wi-Fi
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
EMC	IEC62109-1&2, IEC62040-1	IEC62109-1&2; IEC62040-1	IEC62477-1, IEC62040-1
Safety Regulation	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

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