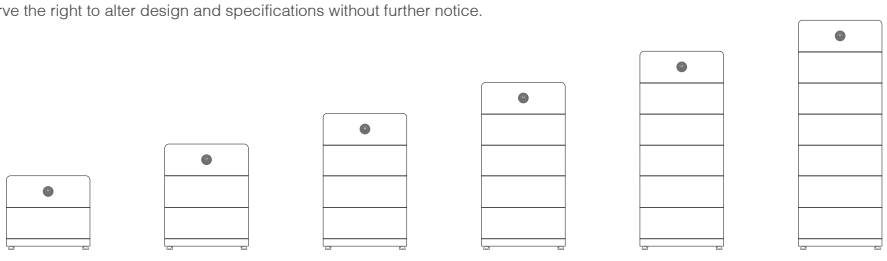
ESA Series / Battery Module

GOODWE

Technical Data		GW5.1-BAT-D-G20	GW8.3-BAT-D-G20	GW5.1-BAT-D-G21	GW8.3-BAT-D-G21
Rated Energy (kWh)		5.12	8.32	5.12	8.32
Usable Energy (kWh)*1		5	8	5	8
Battery Type		LFP ($LiFePO_4$)			
Nominal System Voltage (V)		Charge: 420V; Discharge: 380V			
Operating Voltage Range (V) (single phase system)		350 ~ 550			
Operating Voltage Range (V) (three phase system)		700 ~ 950			
Max. Input Current (System) (A)		12	19	12	19
Max. Output Current (System) (A)		13.2	21.0	13.2	21.0
Max. Input Power (System) (kW)*2		5	8	5	8
Max. Output Power (System) (kW)*2		5	8	5	8
Peak.Output Power (System) (kW)*2		7.5 @ 10s	12 @ 10s	7.5 @ 10s	12 @ 10s
Charging Temperature Range (°C)		-18<T≤55	-18<T≤55	2<T≤55	2<T≤55
Discharging Temperature Range (°C)		-20<T≤55	-20<T≤55	-20<T≤55	-20<T≤55
Relative Humidity		5 - 95%			
Max. Operating Altitude (m)		4000			
Noise Emission (dB)		≤29			
Communication		CAN			
Weight (kg)		57.5 ± 1	79.0 ± 1	57.5 ± 1	79.0 ± 1
Dimensions (W × H × D mm)		800 × 326 × 270			
Optional Function Configuration		Heating	Heating	-	-
Ingress Protection		IP66			
Max. Storage time		12 months (-20°C<T≤35°C) 6 months (35°C<T≤45°C)			
Scalability		6 pcs			
Mounting Method		Floor stacked / Wall-mounted			
Country of Manufacture		China			
Standard and Certification	Safety	IEC62619, IEC60730, EN62477, IEC63056, IEC62040, CE, CEC			
	EMC	CE, RCM			
	Transportation	UN38.3, ADR			

*1: Test conditions, 98% DOD (cell 2.85 ~ 3.6V voltage range), 0.2P charge & discharge at 25 ± 2°C for battery system at the beginning of life. Usable energy is defined by its initial design value. Actual available energy may vary depending on charge / discharge rate, environmental conditions (e.g. temperature), transport and storage factors.
*2: Max. Input Power / Max. Output Power / Peak.Output Power derating will occur related to Temperature and SOC.
*: Please visit GoodWe website for the latest certificates.
*: As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.



Number of Battery Modules (pcs)	1	2	3	4	5	6
Total Energy Capacity (kWh)	5.12	10.24	15.36	20.48	25.60	30.72
Total Energy Capacity (kWh)	8.32	16.64	24.96	33.28	41.60	49.92