GOODWE

BAT-S Series

25.6-56.3 kWh I High Voltage Battery

GoodWe's BAT-S Series, available in 25.6 – 56.3kWh, is a high-voltage lithium battery specially designed for small commercial and industrial (C&I) applications with superior performance.is a high-voltage lithium battery designed specifically for small commercial and industrial (C&I) applications. Its modular design supports stacking 5 – 11 battery packs per system, enabling highly flexible capacity expansion to suit diverse project requirements.



Enhanced Flexibility & Performance

· 5–11 pack stacking for flexible configuration
· Wide operating temperature range

Superb Safety & Reliability

· Reliable LFP technology with high cycle stability
· Aerosol-based fire suppression system at pack-level[1]
· Long cycle life, >6000 times

Scalable & Easy-to-Install Design

· Supports up to 6 battery racks in parallel (337.8kWh)
· Modular design for easy transportation and installation

Smart Control & Monitoring

· On-site upgrade using USB disk via inverter
· Auto reboot after undervoltage

1: Optional functions or devices are purchased separately.

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Technical Data	GW25.6-B AT-I-G10	GW30.7-B AT-I-G10	GW35.8-B AT-I-G10	GW40.9-B AT-I-G10	GW46.0-B AT-I-G10	GW51.2-B AT-I-G10	GW56.3-BA T-I-G10
Battery System							
Cell Type	LFP (LiFePO4)						
Capacity (Ah)	100						
Pack Type / model	GW5.1-PACK-I-G10						
Pack Nominal Energy (kWh)	5.12						
Pack Configuration	1P80S	1P96S	1P112S	1P128S	1P144S	1P160S	1P176S
Pack Weight (kg)	42.5						
Number of Packs	5	6	7	8	9	10	11
Nominal Energy (kWh)	25.6	30.7	35.8	40.9	46.0	51.2	56.3
Usable Energy (kWh)*1	25.0	30.0	35.0	40.0	45.0	50.0	55.0
Nominal Voltage (V)	256.0	307.2	358.4	409.6	460.8	512.0	563.2
Operating Voltage Range (V)	229.6 ~ 288.8	275.52 ~ 346.56	321.44 ~ 404.32	367.36 ~ 462.08	413.28 ~ 519.84	459.2 ~ 577.6	505.12 ~ 635.36
Charging Operating Temperature Range (°C)	0 ~ +55						
Discharging Operating Temperature Range (°C)	-20 ~ +55						
Max. Charge / Disharge Current (A)*2	100 / 110						
Max. Charge / Discharge Rate*2	1C / 1.1C						
Max. Charge / Discharge Power (kW)*2	25.6 / 28.1	30.7 / 33.7	35.8 / 39.4	40.9 / 44.9	46.0 / 50.6	51.2 / 56.3	56.3 / 61.9
Cycle Life	6000 (25 ± 2°C, 0.5C, 90%DOD, 70%EOL)						
Depth of Discharge	100%						
Efficiency							
Round-trip Efficiency	96%@100%DOD, 0.2C, 25 ± 2°C						
General Data							
Operating Temperature Range (°C)	0 ~ 40°C						
Storage Temperature (°C)	+35°C ~ +45°C (<6 Months); -20°C ~ +35°C (<1 Year)						
Relative Humidity	5 ~ 85%, No condensation						
Max. Operating Altitude (m)	3000						
Cooling Method	Natural Cooling						
User Interface	LED						
Communication	CAN (RS485 Optional)						
Weight (kg)	248	293	338	383	428	472	517
Dimension (W × H × D mm)	481 × 925 × 552	481 × 1063 × 552	481 × 1201 × 552	481 × 1339 × 552	481 × 1477 × 552	481 × 1615 × 552	481 × 1753 × 552
Ingress Protection Rating	IP20						
Fire Safety Equipment	Aerosol, Pack Level						

*1: Test conditions, 100% DOD, 0.2C charge & discharge at +25 ± 2°C for battery system at beginning life. System Usable Energy may vary with system configuration.
*2: Actual Dis- / Charge Current and power derating will occur related to Cell Temperature and SOC. And, Max C-rate continuous time is affected by SOC, Cell Temperature, Atmosphere environment temperature.
*: Please visit GoodWe website for the latest certificates.

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