

High Voltage Battery Energy Storage

Utility BESS

- ☑ PARALLEL
- 🔧 EASY O&M
- 📡 COMMUNICATION
- 🏭 OEM/ODM



Why Grace High Voltage BESS?

- High-performance LFP cells with long life
- Smart BMS with active balancing for cell protection
- Modular & parallel expandable architecture
- Fast charging & high usable depth of discharge
- Multiple communication options for inverter & EMS integration

Typical Applications:

- Microgrid Application
- Integrated power quality management in distribution areas.
- Distribution capacity increase
- Hotels / Resorts / Farm house
- DG Set replacement
- Backup power supply & EV Charging solutions.

Grace
BESS

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High Voltage Battery Energy Storage (Utility BESS)

Model Name	GRE-US-3MWH	GRE-US-5MWH	GRE-US-6.25MWH
DC Side			
Nominal Capacity (kWh)	3086 kWh	5015.96 kWh	6251.3 kWh
Cluster Configuration	1P384S*8	1P384S*13	1P416S*8
Rated Voltage	1228.8V	1228.8V	1331.2V
Operating Voltage Range	1075.2 V- 1363.2 V	1075.2 V- 1363.2 V	1123.2 V- 1497.6 V
Rated Power	1600 KW	2500 KW	3125.6 KW
All in one Solutions- Inbuilt PCS	Yes	No	No
Rated Charge/discharge Rate	0.5C		
Cycle Life	8000 cycles (70% SOH, 0.5C/0.5C, 25°C)		
Cell Specification	3.2V/314Ah		3.2V/587Ah
Cooling Mode	Liquid Cooling		
Cell Chemistry	Lithium Iron Phosphate (LFP)		
Fire Extinguisher	FK-5112/Aerosol Fire Suppression System + Water Fire Fighting		
Detector Type	Temperature, Smoke, Combustible Gas		
Protection			
Over-Voltage Protection	Yes		
Under-Voltage Protection	Yes		
Over-current Protection	Yes		
Short-circuit Protection	Yes		
System Data			
Operating Temperature Range	-30 to +50°C		
Relative Humidity	0~95%RH (Non Condensing)		
Noise	<80DB		
Dimensions (W*D*H)mm	2438*6058*2896		
Weight	31T	42T	49T
Protection Degree	IP55		
Max. Operating Altitude	< 2000m		
Communication Interface	CAN, Ethernet, RS485		
Communication Protocol	Modbus TCP/RTU, IEC61850		
Self-discharge	≤3%/Month (Fully charged, shut down)		