

Low Voltage Battery Energy Storage

—
BESS Rack & Wall Mount

- MAX 150A PARALLEL
- ≡ MODULAR
- Ⓢ COMMUNICATION
- Ⓢ OEM/ODM



What can Grace Batteries do?

- Store excess solar energy for night-time use
- Provide uninterrupted backup during grid outages
- Reduce diesel generator runtime and fuel cost
- Compact design for wall, rack, or floor installation
- Enable self-consumption maximization

Typical Applications:

- Residential solar energy storage & backup
- Small commercial & office power backup
- Peak load management & energy cost reduction
- Telecom & networking equipment backup
- Microgrid & off-grid power systems
- UPS integration for critical loads (IT, healthcare, retail)

Grace
BESS

Low Voltage Battery Energy Storage (BESS Rack & Wall Mount)

Model Name	G RE48V 100 A H	G RE 51.2V 10 0A H
Nominal Voltage (V)	48V	51.2
Capacity (Ah)	100	100
Capacity (kWh)	4.8	5.12
No. of cell in series	15	16
No. of cell in parallel	1	1
Total No. of cell	15	16
Cell Type	Prismatic, 100Ah	Prismatic, 100Ah
Chem istry	LFP	LFP
BMS Type	Sm art	Sm art
Maximum cut-off voltage (V)	54.7 5(±1.5)	56 (±1.5)
Minimum cut-off voltage (V)	42(±1.5)	44 (±1.5)
Charging Voltage (V)		56
Recommended charging current (A)	54.7 5	30
Maximum charging current (A)	30	50
Recommended discharging current (A)	50	50
Maximum Continuous discharging current (A)	50	100
No. of Packs in parallel	100	15
Cycle Life (80% DOD, 25°C, 0.5C/0.5C)	15	350 0/ 6000
Cell Over Voltage Protection	350 0/600 0	3.65
Cell Over Voltage Release	3.65	3.5
Cell Over Voltage Protection	3.5	2.7
Cell Under Voltage Release	2.7	2.8
Cell under voltage protection	2.8	Yes
Cell over voltage Protection	Yes	Yes
Over current protection	Yes	Yes
Short circuit protection	Yes	Yes
Temperature protection	Yes	Yes
Ingress protection	Yes	IP20
Dimension (LXWXH) Approx.	IP20	(500X450X180) mm
Power Connector	(500X450X180) mm	2 Pole Connector
Weight (kg)	2 Pole Connector	52.5 (Approx.)
Communication Connector	50kg (Approx.)	CAN/ RS4 85/ BI ueto oth
MCB	CAN/RS 48 5/B lu eto oth	YES
	YES	