

Lead Acid Replacement



Why Grace Lead Acid Replacement BESS?

- Higher efficiency & longer cycle life than traditional lead-acid batteries
- Compact design with higher energy density (saves space)
- Fast charging & deeper discharge capability
- Zero maintenance with advanced BMS protection
- Lower lifetime cost & better ROI
- Safer, cleaner & eco-friendly energy solution

Typical Applications:

- UPS & backup power systems
- Solar energy storage (residential & commercial)
- Inverter battery replacement for homes & offices

Lead Acid Replacement

Model Name	GRE12.8V100H	GRE25.6V100H
Nominal Voltage (V)	12.8	25.6
Capacity (Ah)	100	100
Capacity (kWh)	1.28	2.56
No. of cell in series	4	8
No. of cell in parallel	1	1
Total No. of cell	4	8
Cell Type	Prismatic, 100Ah	
Chemistry	LFP	
BMS Type	Smart	
Maximum cut-off voltage (V)	14.6	29.2
Minimum cut-off voltage (V)	11.2	22.4
Charging Voltage (V)	14.6	29.2
Recommended charging current (A)	30	
Maximum charging current (A)	50	
Recommended discharging current (A)	50	
Maximum Continuous discharging current (A)	100	
Cycle Life (80% DOD, 25°C, 0.5C/0.5C)	≥3500	
Cell Over Voltage Protection	3.65	
Cell Over Voltage Release	3.5	
Cell Over Voltage Protection	2.7	
Cell Under Voltage Release	2.8	
Cell under voltage protection	Yes	
Cell over voltage Protection	Yes	
Over current protection	Yes	
Short circuit protection	Yes	
Temperature protection	Yes	
Ingress protection	IP20	
Dimension (LXWXH)mm	(120x180x185)	(250X230X180)
Power Connector	2 Pole Connector	
Weight (kg)	10.5 (Approx.)	26.5 (Approx.)
Communication Connector	UART (Display)	