



Battery Energy Storage System

GESS-GB-344C-DC

172kW/344kWh(0.5CP)/1228V



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Features

- Highly integrated, convenient for transportation and rapid deployment.
- Modular design, high flexibility for system solutions.
- IP55 rated outdoor enclosure.
- Liquid cooling design.
- 280Ah cell, 3.2V IP384S.
- Each rack contains 8 battery modules.
- Each module contains 48 cells (IP48S).
- Including liquid cooling system, fire suppression system, HVAC, BMS monitoring.
- System and auxiliary system.
- Ready to ship within 45 days from order placement.
- DC only
- Warranty: 4000 cycles or 5 years (whichever comes first) (unless otherwise the commercial offer mention different warranty conditions)

Cell Parameters	
Cell type	LFP
Cell specification	3.2V/280Ah
Rated rate	0.5CP
Maximum rate	1CP
Cycle life	4000 times@25°C,0.5CP/0.5CP
Calendar life	20 years
Battery Module Parameters	
Combination	1P48S
Rated capacity	280Ah
Rated voltage	153.6V
Voltage range	134.4~172.8V
Rated energy	43kWh
Rated rate	1CP
Maximum rate	1CP
Temperature difference of cells inside PACK	≤2°C
Battery Cluster Parameters	
Rated voltage	1228.8V
Voltage range	1075.2~1382.4V
Rated energy	344kWh
Rated rate	1CP
Maximum rate	1CP
Battery System Parameters	
Rated energy	344kWh
DC side system efficiency (0.5 CP)	>93%
Rated voltage	1228.8V
Voltage range	1075.2~1382.4V
Rated rate	0.5CP
Working temperature	-30°C~55°C
Storage ambient temperature	-40°C~60°C
Working relative humidity	0 ~100% (no condensation)
Altitude	≤3000m
Cooling method	liquid cooling
Fire protection system	PACK level fire protection (perfluorohexanone) + water fire protection + combustible gas detection and exhaust + explosion venting design
Auxiliary power supply	400VAC/50Hz three phase
System communication interface	CAN/RS485/Ethernet
System communication protocol	Modbus-RTU / Modbus-TCP/IEC61850
Standards & Certifications	NFPA68/69, NFPA855, GB36276, IEC62619, IEC62933, UL1973, UN38.3, UN3536, UL9540A
Protection class	IP55
Size (wide * deep * High)	1100*1550*2500mm
Weight	3.3 tons