

Battery Energy Storage System



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GESS-SW-215C-PO

100kW/215kWh(0.5CP)/400Vac



**Swedish Grid approved PCS
with EN50549 certification**

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Technical Specifications

Features

- 400V AC voltage
- Forced air cooling system
- Operating temperature range +40°C to -20°C
- IP54 enclosure
- C3 grade Corrosion resistant
- Warranty: 4000 cycles or 5 years (whichever comes first) (unless otherwise the commercial offer mention different warranty conditions)
- After 4000 cycles, the remaining capacity of the battery is above 70%

Item	Parameter
AC side parameters	
System access method	3P+N+PE/3P+PE
Power voltage	400Vac
Rated AC power	100kW
Rated AC current	144 A
Rated grid frequency	50/60Hz
THDi (rated power)	<3%
Power factor adjustable range	-1(ahead) ~1(hysteresis)
DC side parameters	
Battery Type	LFP 280Ah
Battery power	215kWh
DC rated voltage	768V
DC voltage range	648~864V
Rated charge and discharge rate	0.5 P
DC maximum current	166A
System parameters	
Isolation method	non-isolated
Dimensions (width*height*depth)	1545*1245*2282 mm
Weight	2100kg
System life	6000 times @25°C, 0.5CP, 80 %DOD, remaining capacity (EOL) ≥ 80 %
Communication Interface	RS485, CAN, LAN
System operating temperature	-30 °C ~ 50°C
Battery compartment temperature control range	25°C±7°C
Altitude	2200m
Battery temperature control method	Industrial air conditioning
Fire Fighting System	Non-pressure storage perfluorohexanone + gas/smoke/temperature detection
IP Protection level	IP54

Applications:

Frequency Regulation
Peak Shaving
Capacity Firming
Transmission support
Distribution support
Black Start
PV & wind Integration
Power Factor & Voltage Support
Reactive power trading



PCS Specifications		
Name	Parameter	
DC side parameters		
Maximum DC voltage	950Vdc	
Battery voltage range	650 ~ 950Vdc	
DC maximum current	166 A	
Grid side parameters		
Wiring	3P+N+PE/3P+PE	
Rated AC power	100kW	
Rated grid voltage	400V /230V	
Rated current	144 A	
Rated grid frequency	50/60Hz	
Power factor adjustable range	1(Advance) ~1(lag)	
THDi (rated power)	<3%	
System parameters		
Isolation method	No transformer	
Maximum efficiency	98.5 %	
Operating temperature	-30°C~55°C (>45°C derating)	
Relative humidity	5%RH~95%RH, non-condensing	
Altitude(m)	4000m (>2000m, use with reduced rating)	
cooling method	Temperature controlled forced air cooling	
Communication Interface	RS485/CAN	
Dimensions	500x670x270mm (W/ D / H)	
Weight	50 kg	

