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GESS-SW-350C-DC

350kW/442.4kWh (0.8C)



Global Energy Storage Solutions Battery AB

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Features

- 350kW/442.4kWh capacity Forced Air-cooled
- Can operate in environments up to -20°C* (Optional -40°C)
- Special Auxiliary heating systems to keep the battery warm
- IP54 system
- Can be used for other BESS applications (Reactive power trading, Peak shaving, UPS etc.)
- LiFePO4 Battery technology
- Maximum auxiliary power requirement 12kW
- Warranty: 4000 cycles or 5 years (whichever comes first) (unless otherwise the commercial offer mention different warranty conditions)

CELL Standard:

- IEC 62619
- UL 1973
- UL9540A
- UN 38.3

Pack Standard:

- IEC 62619

Technical specification GESS-SW-350C-DC

Rated discharge power (kW)	350
Rated charging power (kW)	350
Rated capacity (kWh)	442.36
System "C" rate	0.8C
Battery Cabinets	2
No of Cells	1152
Battery clusters (units)	4
Number of battery stacks	2
Dimensions (W x D x H) mm (one cabinet)	1650 x 1200 x 2100

Cell parameters

Cell type	LFP
Rated capacity (Ah)	120
Rated voltage (V)	3.2
Rated energy (kWh)	0.384
Operating humidity	< 85% ROH, no condensation
Power Efficiency	97%
Calendar life	not less than 10 years

Battery pack parameters

Combination	1P24S
Rated capacity (Ah)	120

Rated voltage (V)	76.8
Rated Energy (kWh)	9.216

Battery cluster parameters

Battery packs	12
Rated capacity (Ah)	120
Rated voltage (V)	921.6
Voltage range (V)	829 - 1000
Rated energy (kWh)	110.59
Series-parallel	1P12S

Battery stack parameters

Clusters	2
Rated capacity (Ah)	240
Rated voltage (V)	921.6
Rated capacity (kWh)	221.18

Battery cabinet parameters

Stacks	1
Rated capacity (Ah)	240
Rated voltage (V)	921.6
System voltage range (V)	829-1000
Rated capacity (kWh)	221.18
Maximum SOC	96%
System Discharge Efficiency	95%
Usable Energy after discharge loss	403kWh



Example application: For EV charging

Parameter	Value
2Sec Maximum Power	450 kW
2Sec Max Current	91 A
Continuous Power	360 kW
Continuous Current	73 A

