

Container energy storage system



Key strengths



Multiple working modes can be flexibly set.



Support real-time online monitoring of system status.



Support battery management system and comprehensive thermal management.



Support simultaneous access to load, battery, grid, DG, and PV.

Applications

C&I peak shaving and valley filling

» Emergency Power Supply

» Grid side peak regulation and frequency modulation



AC Data

Model	ESS500B-1075	ESS1000B-2150
Rated power (kW)	500	1,000
Rated voltage (V)	400	
Rated current (A)	722A	1,445A
Voltage range (V)	320V-460V	
Rated frequency	50/60Hz	
Frequency Range	45-55/55-65Hz	
THDi(on-grid)	<3%	
THDu (off-grid)	≤1%linear; ≤5%non-linear	
Power factor	1 (0.8 leading ~ 0.8 lagging can be set)	
Overload capacity	110% Long term	
AC output	3W+N+PE	
Isolation transformer	315/400	
On -grid off-grid switching	Support	

PV Data

Max.PV input voltage (V)	1,000	
Max. PV power (kW)	600/660/720	1,200/1,320/1,440
MPPT operating voltage range (V)	250~850	
MPPT full load voltage range (V)	450~850	
Buck-boost mode	Support	

Battery Data

Cell type	3.2V/280Ah/0.5C, LFP	
Nominal voltage(V)	768V/1P240S	
Nominal energy (MWh)	1.0752	2.1504
Working voltage range (V)	672~850V	
Max. charge and discharge rate	0.5C@25°C	
Cycles	≥ 5000	

System Data

Dimensions W *D *H (mm)	6,058×2,438×2,896	12,192×2,438×2,896
Net weight (kg)	21,000	38,000
Operating temperature (°C)	0 ~ +45	
Relative humidity	0 ~95% (non-condensing)	
Ingress protection	IP54	
Noise emission (dB)	<75dB	
Operating altitude	3,000m	
Cooling	Intelligent air cooling	
Fire extinguishing system	FM200/NOVEC1230	
Display	Touch LCD display+cloud platform	
EMS communication	RS485, TCP/IP	