

Container energy storage system



Key strengths

- Multiple working modes can be flexibly set.
- Support battery management system and comprehensive thermal management.
- Support real-time online monitoring of system status.
- Support simultaneous access to load, battery, grid, DG, and PV.

Applications

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- » C&I peak shaving and valley filling
 - » Emergency Power Supply
 - » Grid side peak regulation and frequency modulation
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AC data

Model	ESSC0500B-1075	ESSC1000B-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/1C, 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	