

Container energy storage system



KEY STRENGTHS

- | Multiple working modes can be flexibly set.
- | Support battery management system and comprehensive thermal management.
- | The electrical compartment and battery compartment are separated to prevent runaway spread of heat.
- | Support real-time online monitoring of system status.
- | Support simultaneous access to load, battery, grid, DG, and PV.
- | Integrated design, easy to transport and install, flexible deployment.

APPLICATIONS

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

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
Number of Battery Cycles		≥5,000

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