

Energy Storage System Series

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 | ≥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 | |