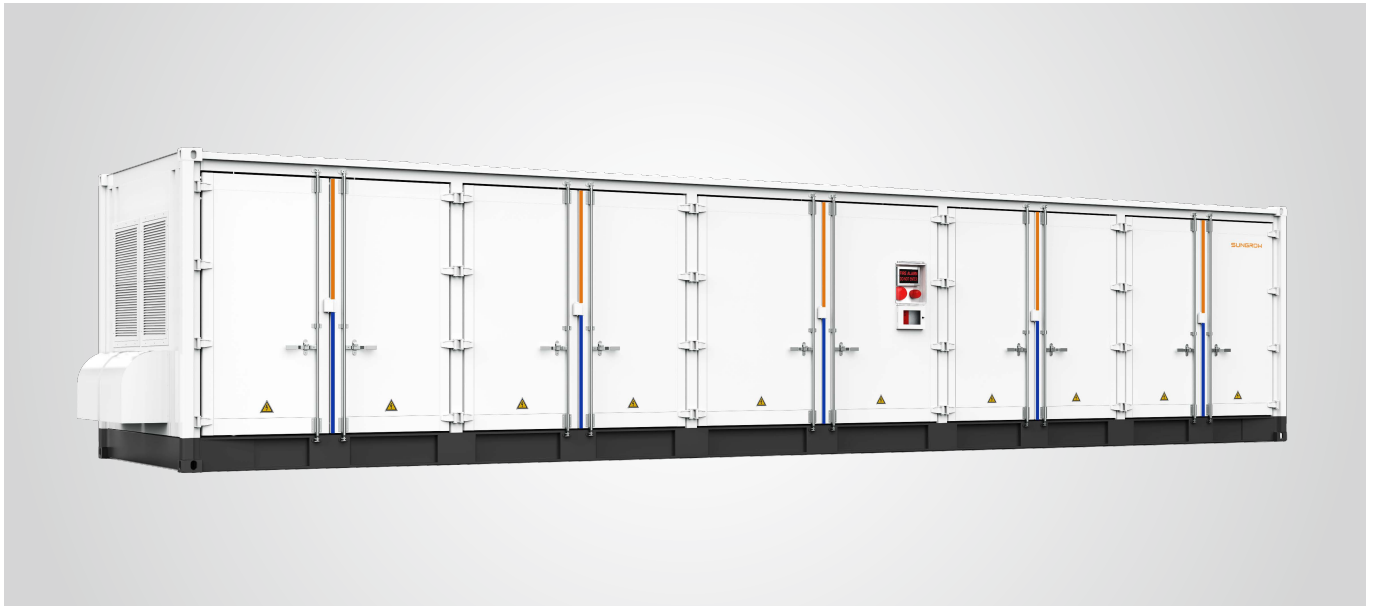


ST2007kWH(L)-1000TL

SUNGROW

Storage System

Preliminary



HIGH INTEGRATION

- Highly integrated ESS with outdoors cabinet design provides high protection class
- Advanced integration technology ensures optimal system performance and lower cost

SAFE AND RELIABLE

- DC electric circuit safety management includes fast breaking and anti-arc protection
- Multi-state monitoring and linkage actions ensure battery system safety

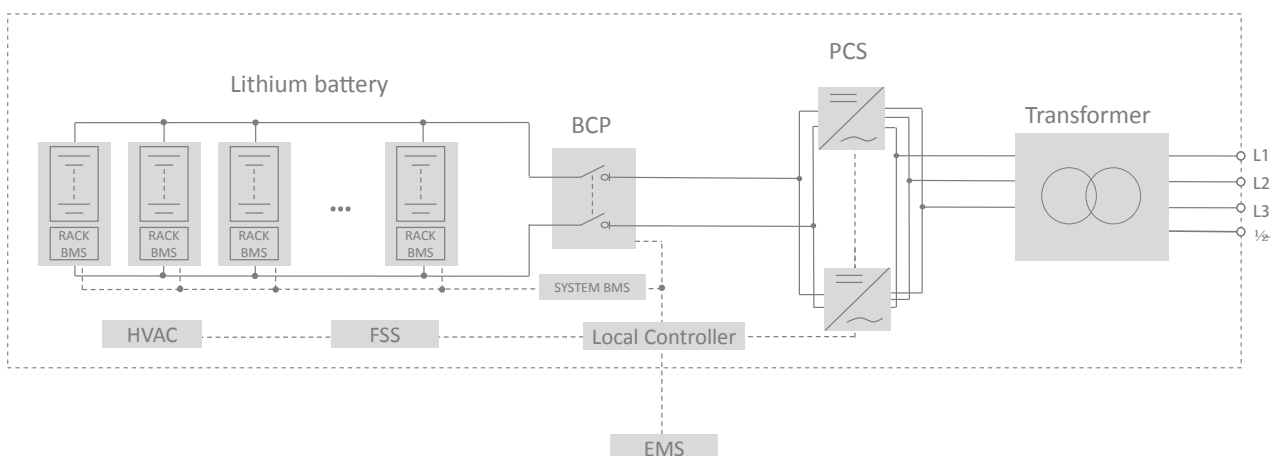
EFFICIENT AND FLEXIBLE

- Top-mounted HVAC and cell-level temperature control ensures longer battery life cycle
- Modular design supports parallel connection and easy system expansion

SMART AND FRIENDLY

- Integrated local controller enables single point of communication interface
- Fast state monitoring and faults record enables pre-alarm and faults location

CIRCUIT DIAGRAM



*: Choose whether to connect to the N line according to the site situation



System Type	ST2007kWH(L)-1000TL
Battery Data	
Cell type	LFP, 280Ah / 302Ah
Configuration of system	224S10P / 208S10P
Battery capacity (BOL)	2,007 kWh
Battery voltage range	604.8 ~ 817.6 V / 561.6 ~ 759.2 V
BMS communication interfaces	RS485, Ethernet
BMS communication protocols	Modbus RTU, Modbus TCP
AC Data	
Nominal AC power	1000 kVA
Max. THD of current	< 3 % (at nominal power)
DC component	< 0.5 % (at nominal power)
Nominal grid voltage	400 V (with transformer)
Grid voltage range	360 ~ 440 V
Power factor	> 0.99
Adjustable power factor	1 leading ~ 1 lagging
Nominal grid frequency	50 Hz
Grid frequency range	45 ~ 55 Hz
Isolation method	With transformer
General Data	
Dimensions (W * H * D)	12,192 * 2,896 * 2,438 mm
Weight (with / without battery)	38 T / 23 T
Degree of protection	IP54
Operating temperature range	-30 to 60 °C (> 50 °C derating)
Relative humidity	0 ~ 95 % (non-condensing)
Max. working altitude	1,000 m (standard) / > 1,000 m (optional)
Cooling concept of battery chamber	Heating, ventilation and air conditioning
Cooling concept of PCS chamber	Temperature controlled forced air cooling
Fire suppression system of battery unit	FM-200 extinguishment system
Communication interfaces	RS485, Ethernet
Communication protocols	Modbus RTU, Modbus TCP, IEC 104
Certificates	AS4777.2 / AS62040.1.1