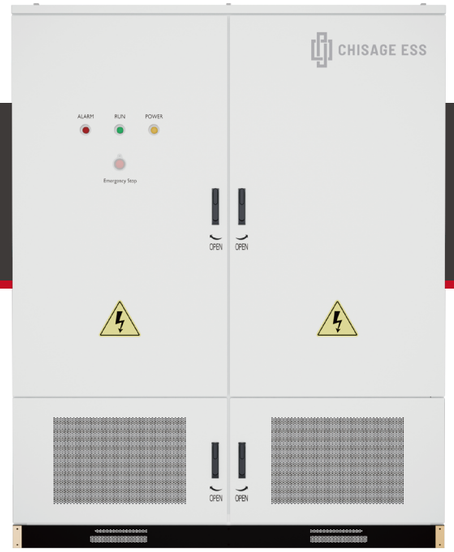
C&I ESS

OBE522-Y



Product Features

- Multi-dimensional safety assurance including PACK-level, cabinet-level fire protection, and water-based firefighting.
- Internal integration of STS for rapid deployment.
- Supports optional MPPT cabinet configuration and integration with existing PV inverters.
- Flexible PCS power options, supporting both 2-hour and 4-hour system configurations
- Grid-connected-to-island switching time ≤20 ms, supporting three-phase unbalanced load operation.

Technical Data

Model	OBE522-Y
Battery Parameters	
Battery Type	Lithium Iron Phosphate
Cell Capacity (Ah)	314
Number of Series Strings in System	2P260S
Rated Voltage(V)	832
Rated Voltage Range(V)	728-936
Charge/Discharge Rate(C)	≤0.25 / ≤0.5
Cooling Type	Liquid Cooling
AC Parameters (Off-Grid)	
Back-up switch time (ms)	<20
AC Voltage Harmonics	<3% (linear load)
AC Parameters (Grid-tied)	
Rated Power (kW)	125/250
Rated Voltage(V)	230/400
Voltage Deviation	-15%~15%
Maximum AC Current (A)	200/400
Wiring Method	3P4L
Frequency(Hz)	50/60
Power Factor	0.99
Power Factor Range	-1(lagging) to 1 (leading)
System Parameters	
Weight (t)	≈5
Dimensions (W × H × D)(mm)	2000 × 2420 × 1350
Cycle Life	≥8000 cycles (25° C, 0.5P, EOL 70%)
Operating Ambient Temperature(°C)	-20~55°C, derating above 45°C
Operating Environment Humidity	0-95% RH (non-condensing)
Ingress Protection Rating	IP54
Corrosion Resistance Rating	C4
Noise	≤75dB
Altitude(m)	3000 (derating above 2000 m)
Fire Protection	Aerosol
Communication	4G, Ethernet, RS485
Certifications and Standards	CE, UN38.3