



# SUNTERA

## OY-3440AL Battery System

OY-3440AL is a new generation of utility-scale energy storage system with advanced design principle. The system features of effective liquid cooling, higher efficiency, higher safety and Intelligent O&M. The modular design can satisfy the majority of demanding applications and emerging scenarios, and deliver the most services and value to customers and the grid.

### Effective Liquid Cooling

- ✓ Non-uniform and refined pipeline design, achieving temperature difference  $\leq 2.5^{\circ}\text{C}$
- 🔥 Multiple liquid cooling control modes and auxiliary power consumption decrease by 20%

### Higher Efficiency

- 🔌 Adopting cluster management technology and system efficiency increases by 1%
- 📊 Cell to Cell active balance ensures the consistency between cells

### Higher Safety

- 🔒 Multiple level protection from cell to system to prevent from uncontrolled heat spread
- 🛡️ Equipped with deflagration venting, gas fire protection and water suppression to ensure the final protection

### Intelligent O&M

- 📱 Smart management and real time monitoring ensures high efficient commission
- 📊 Compact design with side-by-side layout and standard 20ft container design ensures 6.88MWh/40FT


**ESS in Power Generation**

Support the widescale deployment of renewable energy and provide ancillary services of the grid


**ESS in Power Transmission and Distribution**

Release existing transmission capacity and relieve network peak load


**ESS in Power Consumption**

Supplement to the electricity supply, reducing the cost and ensuring the stable power network



Items	Parameters
Type of cell	Lithium Iron Phosphate(LFP)
Cell parameters	3.2V/280Ah
Max. charge/discharge power	0.5P
Configuration of system	1P384S×10
Rated capacity	3.44 MWh
Rated voltage	1228.8V
Voltage range	1075.2~1382.4V
Cooling method	Liquid Cooling
Environmental temperature	-20~50°C
Environmental humidity	≤95%RH, Non condensation
Altitude	≤2000m / <4000m (optional, derating)
Noise level	< 80dB(A), @1m
IP Grade	IP54
Storage temperature	-20~45°C
Corrosion-proof grade	C3(EN ISO 12944)/C4 (optional)/C5(optional)
Fire protection	Gas Sensors+Deflagration Venting+ FM200/Novac 1230/Aerosol + Water Dry Pipe
External communication interface	Ethernet/Fiber (Optional)
Dimensions (L×W×H)	6058×2438×2896mm
Weight	≈35000 kg