

STAR X

All-in-One Liquid-Cooled Containerized Utility-scale ESS

CATL Original Pack
2800kW/5644kWh



CATL Original Battery Pack

- LFP **530Ah** | Cycle Life $\geq$ **10,000** Cycles

Per-Cluster Independent Control

- $\geq$ **99%** System Availability
- **6%** Increase in Discharge Capacity
- **5%** Increase in Expected System Lifetime

Fast Installation, Intuitive Operation

- Factory-preinstalled and Pre-commissioned
- One-Touch Start-Up and Shutdown

Liquid-Cooled Grid-Forming PCS

- Modular Design with Enhanced Protection

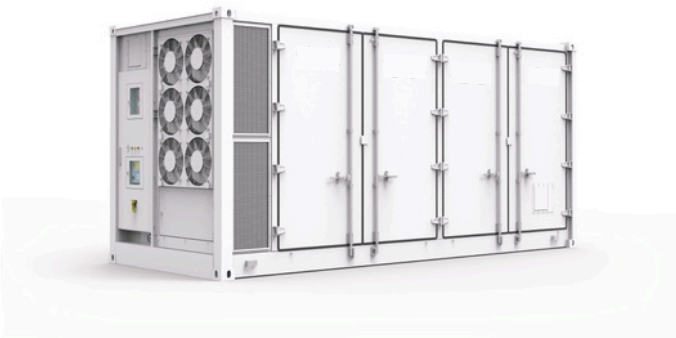
Flexible Deployment Options

- **0.5P** and **0.25P** Configurations Available
- Scalable from **1MW/2MWh** to **2.8MW/5.6MWh**
- Transport-friendly with Rack-count Scaling

AI-Powered Predictive Maintenance

- Accurate Prediction of Remaining Useful Life
- Up to **90%** Faster Fault Diagnosis for Reduced Downtime

STAR X Product Specifications



STAR X	
Battery Parameters	
Cell Type	LFP
Cell Capacity	530 Ah
Nominal Energy	5644 kWh
Charge/Discharge Rate	0.5P/0.5P
AC Parameters	
Rated Power	2800 kW
Rated Voltage	690 Vac
Rated Frequency	50 Hz
DC Parameters	
Rated Voltage	1331 Vdc
Voltage Range	1165 ~ 1497 Vdc
System Parameters	
Cooling Method	Liquid Cooling
Temperature	-30°C ~ 55°C(> 45°C derating)
Humidity	0~95%, Non-condensing
Altitude	≤ 4000m(> 2000m derating)
IP Level	IP55
Dimensions (W × D × H)	6058*2438*2896mm
Weight	< 45 t
Communication	Ethernet