

NEO Stella

100 kW/232 KWh All-in-One ESS for Commercial Application

Indoor/Outdoor Liquid Cooling



Flexible Application

All-in-One Design
Plug-and-Play
Zero-Gap Parallel Connection

Accurate Liquid Cooling

Temperature Difference $\leq 3^{\circ}\text{C}$
Extend Battery Lifespan

Ultimate Safety

Quadruple Fire Protection
Precision Fire Alarm Position
Real Time Insulation Monitoring

Intelligent Power Management

EMS Ensures System Safety
Cloud Platform Monitors Status

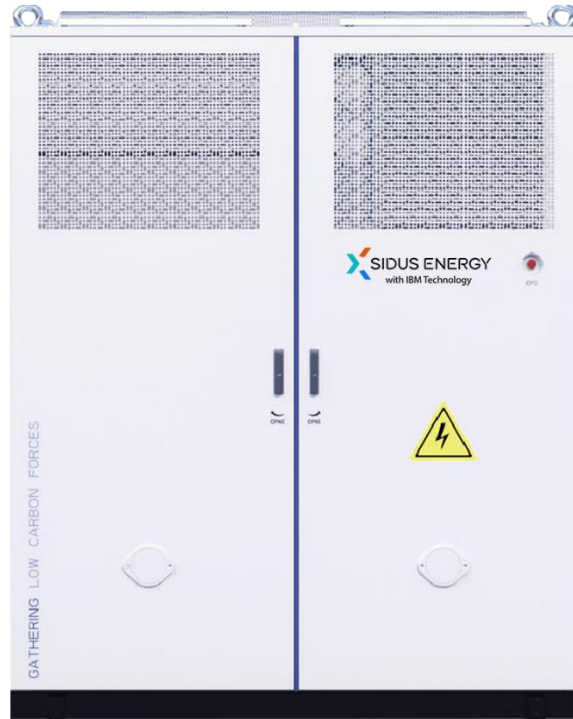
NEO Stella Technical Data

Model	SEP-AA232	
Battery Parameter		
Battery Chemistry	LiFePO ₄	
Battery Model	280Ah	
Rated Energy	232kWh	
Voltage Range	728~936VDC	
P-rate	0.5P	
Compliance	UN 38.3, UN 3480, UL 1973, UL 9540A, UL9540, IEC 62619, IEC 61000-6-2/-4, IEC 62477-1, IEC 60356, IEC 60730-1	
PCS Parameter		
Rated AC Power	100kW	
Rated Grid Voltage	400/480Vac	
Total Harmonic Distortion	<3%	
Rated Grid Frequency	50/60Hz	
Peak Efficiency	98%	
Power Factor	-1 to 1, continuously adjustable	
Compliance	EN 50549, G99, VDE AR-N 4105, NTS Spain, IEC 62477, IEC 61000-6-2, IEC 61000-6-4, UL 1741, IEEE1547-2018, UL1741 SB	
General Parameter		
Dimension (W×D×H, mm)	1500×1300×2000	
Weight	~3500kg	
IP Level	IP65	
Cooling mode	Liquid Cooling	
Operating Temperature Range	-25 ~ 55 °C (>45°C derating)	
Relative Humidity Range	0 ~ 95% (No Condensation)	
Max. Working Altitude	4000m (>2000m derating)	
Fire Safety Equipment	Aerosol, Smoke detector, Heat detector, Flammable gas detector (optional), Deflagration vent (optional), Dry pipe (optional)	
Isolation Transformer	Off-Grid Require	

NEO Stella

250 kW/430 kWh All-in-One ESS for Commercial Application

Indoor/Outdoor Liquid Cooling



Multiple Application Scenarios

- Peak to valley arbitrage
- Peak to valley shifting
- Optional new energy vehicle charging
- Grid frequency regulation
- Virtual power plant ready
- Off-grid operation (Islands, communication base stations, etc.)

Versatile Expansion

- PCS\BMS\EMS all in one modular design
- Support up to 8 cabinets in parallel
- Supports 2 to 4 hours energy storage applications
- Higher energy density to reduce footprint

Ultimate Safety

- Self-contained fire protection system
- Explosion-proof safety protection system
- Five level electrical safety protection
- High voltage interlocking, preventing loaded arc operation

Intelligent Cloud Platform

- Customizable load algorithmic modules
- 24-hour online operation and maintenance
- Battery life and safety warning
- Device cloud interconnection

NEO Stella Technical Data

Model	SEP-AA430
Battery Parameter	
Battery Chemistry	LiFePO ₄
Battery Model	280Ah
Rated Energy	430.08kWh
Voltage Range	636~876VDC
P-rate (Charge / Discharge)	0.5P / 1P
Compliance	UN 38.3, UL 1973, UL 9540A, UL9540
PCS Parameter	
Rated AC Power	250kW
Max AC Power	275kW
Rated Grid Voltage	480Vac (-10%~+5%)
Total Harmonic Distortion	<3%
Rated Grid Frequency	60Hz (±3Hz)
Power Factor	-1 to 1, continuously adjustable
Compliance	UL 1741, CSA C22.2 NO.107.1-16, IEEE1547-2018, IEEE1547-2022
General Parameter	
Dimension (W×D×H, mm)	2000×1350×2480
Weight	~4600kg
IP Level	IP54
Cooling mode	Liquid Cooling
Operating Temperature Range	-30 ~ 55 °C (>45°C derating)
Relative Humidity Range	0 ~ 95% (No Condensation)
Max. Working Altitude	2000m (>2000m derating)
Fire Safety Equipment	Aerosol, Smoke detector, Heat detector, Flammable gas detector (optional), Deflagration vent (optional), Dry pipe (optional)
Isolation Transformer	Off-Grid Require