

Advanced Low-Voltage Energy Storage System

Acelion NEO UL 16

Engineered with modular design for seamless scalability and integration, the NEO UL 16 is designed for smart home and commercial energy solutions. Built with advanced SiC technology and multi-level protection, it ensures maximum efficiency and superior safety. Compatible with Apple HomeKit and Google Home for intelligent energy control.



Real-time monitoring &
remote upgrade available



Module design flexible
expansion



Various Mounting Methods
Wall-mounted, floor-standing
and stacked



Support Battery Charge &
Discharge under low ambient
temperature



High Safety LFP Cell level
monitoring and balancing



Wide Compatibility Matching
with leading inverters

Parameter	Specification
Battery Information	
Model	NEO UL16
Battery Type	LiFePO ₄
Nominal Battery Energy	16 kWh
Nominal Cell Capacity	314 Ah
Nominal Voltage	51.2 V
Operating Voltage	44.8 - 57.6 V
Performance	
Recommended Charge & Discharge C Rate	0.5C
Depth of Discharge (DOD)	80%
Recommended Charge / Discharge Current	157 A
Max. Power Charge / Discharge Current	Charge 314 A / Discharge 157 A
Peak Power Charge / Discharge Current	110 A (15 s)
Expansion	Stand-alone
Cycle Life	≥ 8000 Cycles
Physical Characteristics	
Net Weight	122 kg
Dimensions (W × D × H)	750 × 250 × 570 mm
Environmental Conditions	
Charging Temperature Range	0 - 55°C / -20 - 55°C (with heating function)
Discharging Temperature Range	-20 - 55°C
Protection Level	IP20
Environmental Conditions	
Communication Protocols	CAN / RS485 / Thread / Wi-Fi / BLE