

EDGE Max BATTERY

100–215 kWh | High Voltage Battery

The EDGE HV280 is a robust, high-voltage lithium battery engineered for commercial and industrial energy storage applications. Designed to meet the growing demands of large-scale solar and backup systems, it combines advanced-grade cells with an intelligent battery management system and a scalable architecture for maximum flexibility.



High Capacity & Scalability

Up to 215 kWh per unit, with support for 15 units in parallel, allowing over 3.2 MWh of total capacity.



User Interface

Real-time system feedback via a built-in LED screen for operational clarity and maintenance ease.



Long Lifespan

Tested for 9000+ cycles @ 80% DoD, ensuring 10–15 years of dependable operation under real-world conditions.



High Discharge

280Ah real capacity and 96% DoD for optimized energy use

Technical Properties

SYSTEM DATA	EDGE MAX
Cell Chemistry	LFP (LiFePO ₄)
Module Energy (kWh)	14.3
Module Nominal Voltage (V)	51.2
Module Capacity (Ah)	280
Modules Quantity in Series	7 ~ 15
System Nominal Voltage (V)	358.4 ~ 768
System Energy (kWh)	100 ~ 215
Recommended Charge/Discharge Current	70 A
Max. Charge/Discharge Current	140 A
Max. Depth of Discharge (DoD)	96%
Recommended Depth of Discharge (DoD)	80%
Charging Voltage	Adapted by BMS communication
Cut-off Voltage	Adapted by BMS communication
Communication interface	CAN / RS485
Cycle Life	10000 CYCLES 80%SOH @ 80% DOD & 0.25C/0.5C 8000 CYCLES 80%SOH @ 80% DOD & 0.5C/0.5C
PROTECTION	
Over and Under Cell and Pack Voltage	YES
Over Charge and Discharge Current	YES
Short Circuit	YES
Over and Under Temperature	YES
GENERAL DATA	
Maximum Parallel Modules	15
Display	LED Screen
7-Units Rack Dimension (H*W*D)	2035mm * 600mm * 800mm
Weight	945 kg ~ 2,025 kg
Mounting method	Rack Mounting - Floor Standing
IP Rating of Enclosure	IP20