

Zenaji Eternity

LTO Energy Storage Systems



The Zenaji Eternity Energy Storage System has been developed to meet the growing demand for commercial to grid scale energy storage. With a basic building block of 32 kWh the system is scalable for commercial users up to the megawatts of power needed by utility power companies.

The ultra-long life of the Eternity makes it the lowest cost per kilowatt hour of energy stored and retrieved over its lifetime, of any Lithium Ion solution currently available. Further, the Eternity takes full advantage of the incredible charge and discharge characteristics of the Titanate chemistry along with its enhanced safety features and ability to operate in hot and cold climates.

Commercial Solutions

- Light Commercial / Industrial
- Larger Residential
- Telecommunications
- Emergency / Portable Power
- Large Scale UPS
- Data / Processing Centres
- Farming and Micro-grid

Industrial Solutions

- Solar Farms
- Wind Farms
- Communities / Substation
- Utility / Grid backup
- Peak Smoothing

- 32 kWh Battery Rack Unit
- Temperatures -40° to 60°C
- Fully scalable from Kilowatts to Megawatts
- Easy to install
- Huge surge current capability
- Long Service life
- Ultra Safe
- CANBUS & MODBUS Communications
- Systems can be configured in Series or Parallel

Contact Us

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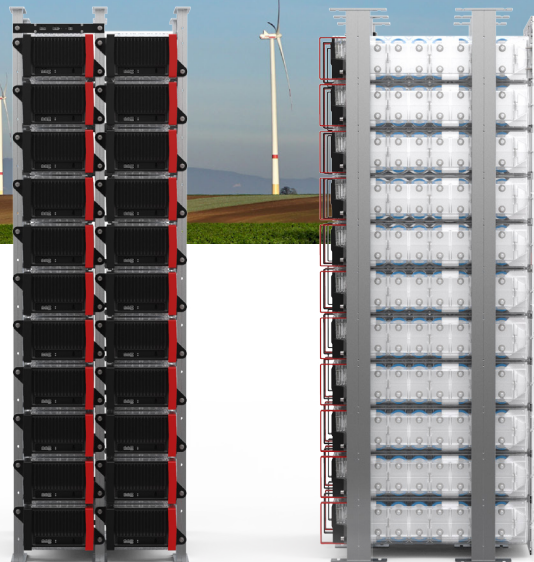
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Overview	Specification
Nominal Capacity (kWh)	32kWh
Maximum Continuous Power (kW @ 1C)	32kW
Maximum Continuous Current (A @ 1C)	640A
Maximum Pulsed Power (kW @ 4C)	128kW
Maximum Pulsed Current (A @ 4C)	2560A
Duty Cycle	up to 10 cycles per day
Cell Cycle Life	22,000 cycles
Key Features	
Battery Management System	Zenaji Eternity LTO Cell management
Compatible Inverters	System configurable for use with most inverters
Communications	CANBUS, MODBUS
Warranty	10 Years or 22,000 cycles whichever comes first, to ≥80% capacity retention, see warranty document for details
Battery Information	
Chemistry	LTO (Lithium Titanate)
Continuous C-Rate	1C
Pulse C-Rate	4C
Voltage Class	Extra-Low Voltage (<120V DC)
Nominal DC Voltage (V)	50V
Minimum DC Voltage (V)	44V
Maximum DC Voltage (V)	56.5V
Nominal Capacity (Ah)	640Ah
Round Trip Efficiency (%)	96%
Depth of Discharge (DoD %)	100%
Mechanical Information	
Package Format	Rack Unit (to fit cabinet or battery room)
Battery Racks Gross Weight (kg)	700
Dimensions (m) (H x W x D)	1.86 x 0.6 x 0.76
Ambient Conditions	
Operating Temperature (°C)	-40 to 60°C
Optimal temperature (°C)	25 ± 5°C
Storage Temperature	-5 to 35°C