



**Gridedge**

Sodium Nickel Technology for Energy Storage Applications

**UP Range**

**FZSoNick**  
+ -

**GREEN & SAFE SALT BATTERY**

||| AUSTRALIA ☎ 1300 474 333

[www.gridedge.com.au](http://www.gridedge.com.au)

### FZSoNick Batteries

Sodium Metal Chloride batteries are the latest generation of the secondary batteries developed specifically to the constraints of the heavy industrial applications. They use metal-based cathode and molten Sodium anode to provide exceptionally safe and reliable power backup that is enclosed in the industrial-grade steel case and equipped with integrated Battery Monitoring. Stable chemical reaction, zero maintenance and insensitivity to temperature and storage aging makes them one of the best choices for Oil & Gas, Power Generation, Transmission and Distribution, Communications, Rail and other industrial use.



Eco  
Friendly



Extreme  
Temperature



Space  
Reduction



Recyclable



Weight  
Reduction



Smart



Maintenance  
Free



Safe



### Availability

- > Zero self-discharge when stored, at any state of charge
- > Zero ageing in floating or storage condition
- > Integrated system (BMS) for monitoring, diagnostics and data logging
- > Module level redundancy

### Operational

- > Up to 80% reduction in footprint and 3 times in weight than conventional batteries
- > Status LED on front panel
- > Low total cost of ownership (TCO)
- > Scalable modules in parallel
- > Expandable without limitation on battery age
- > Parallel operation with other batteries
- > Hot swappable
- > Boost charging not required
- > No memory effect
- > Compatible with most industrial AC and DC UPS

### Environment

- > No active cooling required.  
Constant performance and 20 years design life at:  
-20°C to +60°C / -4°F to +140°F continuous operation  
-40°C to +75°C / -40°F to +167°F peak
- > Suitable for outdoor installation and marine environment
- > Module ingress protection of IP55 and up to IP65
- > Free of toxic material and 100% recyclable

### Safety

- > No gassing or emission
- > No risk of explosion even in presence of external fire
- > Safest among existing high energy density batteries in all conditions: transport, storage and operation
- > Embedded DC protection for load disconnection and short circuit protection
- > Ready for remote monitoring
- > Double stainless steel case

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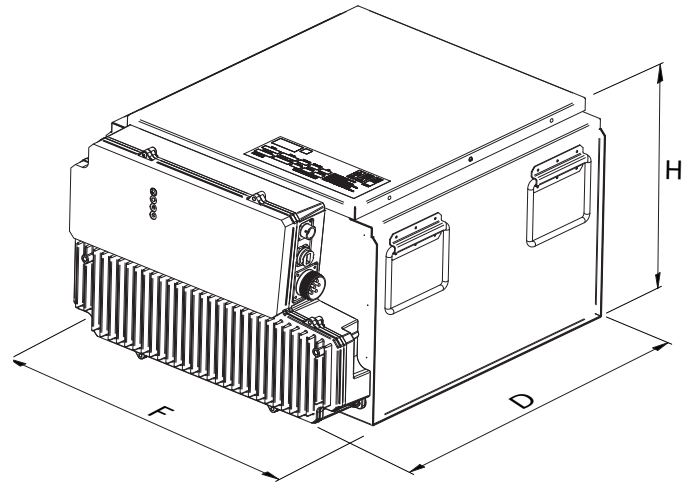


## General Characteristics

Operating Temperature Range	-20°C / +60°C -4°F / +140°F continuous -40°C / +75°C -40°F / +167°F peak*
Storage duration	Indefinite (-40° / +60°C)
Recharge time (0-90% SOC)	<7 h
(0-100% SOC)	< 12h
Design life	20 years
Ingress protection	IP55 (IP65 as optional)
Max charging current	Self limited up to 0.2C
Short circuit current	6C limited to 100ms
Power connector**	MS3102 to MIL-DTL 5015 Series I
Data connector**	MS3110 to MIL-C-26482 Series I
Cycles	> 4500 Cycles at 80% DoD

\*Tested up to 16 hours continuously

\*\* 24UP120, 30UP80, 48UP200: M8 power terminals - RJ45 data connector



## Dimensions and Weights

Model	Front	Depth	Height	Weight
24UP120	500 mm / 19.7 in.	337 mm / 13.3 in.	322 mm / 12.7 in.	47 kg / 104 lb
30UP80	500 mm / 19.7 in.	337 mm / 13.3 in.	322 mm / 12.7 in.	43 kg / 95 lb
48UP200	500 mm / 19.7 in.	558 mm / 22.0 in.	322 mm / 12.7 in.	104 kg / 229 lb
110UP80	500 mm / 19.7 in.	522 mm / 20.6 in.	322 mm / 12.7 in.	94 kg / 207 lb
125UP80	500 mm / 19.7 in.	560 mm / 22.0 in.	322 mm / 12.7 in.	104 kg / 229 lb
130UP80	500 mm / 19.7 in.	598 mm / 23.6 in.	322 mm / 12.7 in.	108 kg / 238 lb
220UP40	500 mm / 19.7 in.	522 mm / 20.6 in.	322 mm / 12.7 in.	94 kg / 207 lb
250UP40	500 mm / 19.7 in.	560 mm / 22.0 in.	322 mm / 12.7 in.	103 kg / 227 lb

## Specific Characteristics per Model

Model	Nominal Voltage	Charge Voltage range	Nominal Capacity at 4 hour rate	Max Continuous Discharge Current	Max Charging current	Interface
24UP120	24 VDC	27-30 VDC	120 Ah / 2800 Wh to 20VDC	90 Amps	24 Amps	RS485 /USB
30UP80	30 VDC	35-40 VDC	80 Ah / 2400 Wh to 26VDC	60 Amps	16 Amps	RS485 /USB
48UP200	48 VDC	54-59 VDC	200 Ah / 9600 Wh to 42VDC	200 Amps	40 Amps	RS485 /USB
110UP80	110 VDC	121-160 VDC	80Ah / 8600 Wh to 94VDC	120 Amps	16 Amps	RS485 /Canbus /USB
125UP80	125 VDC	135-160 VDC	80 Ah / 9600 Wh to 105VDC	120 Amps	16 Amps	RS485 /Canbus /USB
130UP80	130 VDC	141-160 VDC	80 Ah / 9900 Wh to 109VDC	120 Amps	16 Amps	RS485 /Canbus /USB
220UP40	220 VDC	242-300 VDC	40Ah / 8600 Wh to 189VDC	60 Amps	8 Amps	RS485 /Canbus /USB
250UP40	250 VDC	270-300 VDC	40 Ah / 9600 Wh to 210VDC	60 Amps	8 Amps	RS485 /Canbus /USB

## FZSONICK Manufacturing

- > More than 1 GWh deployed in 50 countries
- > Made in Switzerland
- > ISO 9001 - Quality Management System
- > ISO 14001 - Environmental Management System

## Applicable Standards

- > EN 61000-6-2 / EN 61000-6-4
- > CE
- > UL9540A (Safety)
- > Design to comply with UL1973 ed.2
- > IEC62984 / IEC60529
- > Comply with DNV rules for offshore installations

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