

## THE TURNKEY STORAGE SYSTEM FOR AN INTELLIGENT POWER SUPPLY

# CellCube FB 250-1000


Whether in combination with photovoltaics, wind power, diesel, biomass generators or simply shifting peak energy, the CellCube is there for all your utility and microgrid needs. The stationary, large-scale energy storage system efficiently and safely provides emission-free power in all climatic and weather conditions.



## Improved Features

- Increased peak power (+30%)
- Extended overload capacity
- Improved efficiency at rated power
- Optimized energy capacity at rated power
- Reduced balance of system costs
- Integrated BMS, new PCS (bi-directional inverter), optional black start & islanded microgrid system

## Product Highlights

-  Service life of 20 years and beyond
-  Scalable into the MW range
-  Turnkey energy storage solution
-  Temperature management system
-  Thrives in extreme conditions
-  Practically unlimited cycling
-  100% depth of discharge capable
-  Safe, non-flammable, non-explosive
-  Environmentally friendly
-  Reliable and low maintenance

## Applications

- Peaker plant replacement
- T&D upgrade
- Renewable firming
- Microgrid and off-grid
- C&I demand charge reduction
- Self-generation optimization
- Backup power
- Custom applications

## Standards and Grid Codes

- US: IEEE 1547, UL1741  
UL1973, UL9540, NFPA 70, CA Rule 21 pending
- CA: IEEE 1547, UL1741  
UL1973, UL9540, CSA CS22.2 pending
- AU: AS 4777
- DE: BDEW
- BE: C10/C11
- IT: CEI 0-16
- GB: G59
- EU: CE

Certified by:



## TECHNICAL SPECIFICATIONS

## CellCube FB 250-1000

FB 250-1000	
Rated power (AC)	250 kW
Maximum power (AC)	300 kW
Rated energy capacity (AC)	1,000 kWh (rated power, continuous)
Total energy capacity (AC)	1,200 kWh (approx. 50% rated power)
Design and service life	20,000 cycles > 20 years
Output voltage options	400 V/480 V (MV output optional)
SCADA interface	Modbus TCP/IP
Standard operating conditions	-15°C to +45°C (+5°F to +113°F) outdoor temperatures
Extended operating conditions (optional)	-40°C to +50°C (-40°F to +122°F) outdoor temperatures
Safety/Regulatory	Designed & manufactured using industry standard guidelines & regulations. Uses exclusively non-flammable storage medium.
Monitoring & control	24/7 online monitoring: charge level, power output, operating state, etc.
Foot print battery (L x W x H)	12.2 x 4.8 x 5.8 m (40 x 15.8 x 19 ft)
Foot print staircase (L x W)	1.6 x 1 m (5.3 x 3.3 ft)
Foot print total FB 250-1000 plant (L x W x H)	13.8 x 5.8 x 5.8 m (45.3 x 19 x 19 ft)
Gross weight battery (filled condition)	140,000 kg (308,650 lbs)

Information subject to change without notice.

## Clustering 1-10 MW

- Connect multiple MWs
- AC or DC side connection
- Central inverters
- Direct interface to SCADA

Scalable into the  
MW range

