

ENERGY BLOCK

OUTDOOR
SOLUTION



150 - 600kW

Power

215 - 2150kWh

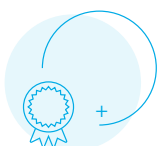
Storage Capacity

150 - 600kW

PV Capacity

FEATURES

- + Active Cell and Module Balancing
- + Superior Cycle Life of 10 000 Cycles
- + Industrial Transformer Inverter System
- + Fire Suppression, Smoke Detectors and Alarm System
- + Integrated Industrial Air Conditioning System
- + Off Grid, On Grid and Solar Ready
- + Remote Monitoring and Reporting
- + Scalable Bespoke Solutions
- + 10 Year Warranty On Batteries, 5 Year On Inverter, Extendable To 10 years
- + On-Site Assistance and Commissioning
- + System Certified: **UN3536**
UN38.3
NRS097
IP54



SUPERIOR CYCLE LIFE
10 000 CYCLES



REMOTE MONITORING +
TECHNICAL SUPPORT



CELL LEAKAGE
PROTECTION + ACTIVE
CELL BALANCING



INTELLIGENT
FIRE SUPPRESSION
SYSTEM

TECHNICAL DATA

BATTERY PARAMETERS		SPECIFICATIONS
Battery Module		51.2 V 280 Ah (0.5C) 14.336 kWh
Cells		Advanced Prismatic LiFePO4 Cells
Balancing		Active Cell & Module Balancing
Storage Capacity		215-2150 kWh
Nominal Voltage		768 V
Operational Voltage Range		720-840 V
Recommended Charge/Discharge		n x (140 A (0.5) / 140 A (0.5C))
Continuous Maximum Charge/Discharge		n x (200 A (0.7C) / 200A (0.7C))
Rated Continuous Power		n x 107 kW
Smart Cooling		Battery: HVAC ; Inverter: Air Cooling
Cycle Life		10 000 Cycles at 80% DOD @ 25± 2°C, 70% EOL, 0.5C/0.5C
Design Life		15 years
AC ON-GRID PARAMETERS		
Rated (Output) Power		150 kW (Scalable to 600 kW)
Max AC Charge Power		150 kW (Scalable to 600 kW)
Voltage Range		320~460 V
Grid Connection		3W + N + PE
Topology		Transformer Integrated
Static Switch (Change Over)		Integrated (<20 ms)
AC OFF-GRID PARAMETERS		
Rated Charge/Discharge Power		150 kW (Scalable to 600 kW)
Rated Grid Voltage		340 V - 440 V
Rated Frequency		50 / 60 (-2.5~2.5) Hz
Generator Control		Yes
PV PARAMETERS		
Nominal MPPT Module Power		50 kW
Nominal PV Power		150 kW (Scalable to 600 kW)
MPPT QTY		3 (Scalable to 12)
Max PV Current		100 A Per String
Max PV VoC		650 V
SYSTEM PARAMETERS		
IP Rating		Inverter Cabinet: IP54 Battery Cabinet: IP55
Corrosion Rating		C4 High Protection
Operating Temperature		-20~50°C
Relative Humidity		0% ~ 95% No Condensation
Firefighting System		Controller, Detectors, Alarms & Extinguisher
Dimensions		Battery: 1050*1100* 2340mm Inverter: 1600*1430* 2340mm
Weight		Battery: 2150kg (Single Cabinet) Inverter Cabinet: 1250kg
Communication Ports		CAN, RS485, LAN, 4G/GPRS
Remote Services		Battery System Monitoring And Parameter Settings. Inverter Monitoring, Reporting, Work Mode And Parameter Settings.
COMPLIANCE		
Battery		UN38.3, UN3536, IEC62619
Inverter		CE LVD IEC 62477, CE EMC IEC 610000, EN 50549-1:2019, C99, AS4777, NRS097