

CONTAINER SOLUTIONS



500kW
482-1446kWh

20 FT. COMMERCIAL +
INDUSTRIAL BESS

FEATURES

- + Active cell and module balancing
- + Superior cycle life of 10 000 cycles
- + Industrial transformer inverter system
- + Fire suppression, gas and smoke detectors and alarm system
- + Integrated industrial air conditioning system
- + Off grid, on grid and solar ready
- + Remote control, monitoring and reporting
- + Scalable bespoke solutions
- + 10 year warranty on batteries, 5 year on inverter, extendable to 10 years (Ts & Cs apply)
- + 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**

BATTERY PARAMETERS

Battery Module	51.2 V 314 Ah (0.5 C) 16.077 kWh * 15 modules
Cells	New A-Grade Li-ion Prismatic LiFePO4 Cells
Balancing	Dual Channel Active Cell & Module Balancing
Storage Capacity	482 - 1446 kWh
Max Rated Continuous Power	n x 120.6 kW
Nominal Voltage	768 V
Operational Voltage Range	720-840 V (10% - 100% SOC)
Continuous Maximum Charge/Discharge	n x (157A (0.5C) / 157 A (0.5C)) @ 25 °C
Smart Cooling	Battery: HVAC; Inverter: Air Cooling
Cycle Life	10 000 Cycles at 80% DOD @ 25 °C, 70% EOL, 0.5 C/0.5 C
Design Life	15 years

SPECIFICATIONS

AC OFF-GRID PARAMETERS

Rated Charge/Discharge Power	500 kW (Scalable to 2 MW)
Rated Grid Voltage	340 V-440 V
Rated Frequency	50/60 (-2.5~2.5) Hz
Generator Control	Yes

AC ON-GRID PARAMETERS

Rated (Output) Power	500 kW (Scalable to 2 MW)
Max AC Charge Power	500 kW (Scalable to 2 MW)
Voltage Range	320~460 V
Grid Connection	3W + N + PE
Topology	Transformer Integrated
Static Switch (Change Over)	Integrated (<20 ms)

PV PARAMETERS

Nominal MPPT Module Power	50 kW
Nominal PV Power	500 kW (Scalable to 2.4 MW)
MPPT QTY	10 (Scalable to 48)
Max PV Current	100 A Per String
Max PV VoC	650 V

SYSTEM PARAMETERS

IP Rating	IP54
Corrosion Rating	C4 High Protection
Operating Temperature	-20~50°C
Relative Humidity	0% ~ 95% No Condensation
Fire Fighting System	Controller, Detectors, Alarms & Extinguisher
Dimensions	6060*2440*2600mm
Weight	About 25,5 t
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	IEC62619, CE, EMC, UN38.3, UN3536
Inverter	CE LVD IEC 62477, CE EMC IEC 610000, EN 50549-1:2019, G99, AS4777, NRS097