



ENERGY CUBE

OUTDOOR
SOLUTION



50kW

Power

143kWh

Storage Capacity

65kW

PV Capacity

FEATURES

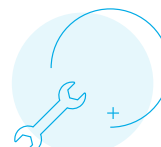
- + Hybrid inverter with integrated EMS
- + <20ms transfer time
- + 10 year warranty on batteries (Ts & Cs apply)
- + Intelligent air cooling with professional airflow design
- + Fire suppression, smoke detectors & alarm system
- + Integrated industrial air conditioning system
- + Forkliftable, easy rigging eye bolts
- + Service level agreement (optional)
- + Remote monitoring & reporting
- + On-site assistance & commissioning
- + Off-grid, on-grid & solar ready
- + System certified: **UN3536**
UN38.3
NRS097
IP54



**SERVICE LEVEL
AGREEMENT (OPTIONAL)**



**REMOTE MONITORING +
TECHNICAL SUPPORT**



**EASY INSTALLATION
+ ON-SITE COMMISSIONING**



**INTELLIGENT
FIRE SUPPRESSION
SYSTEM**

TECHNICAL DATA

BATTERY PARAMETERS

SPECIFICATIONS

Cell Type	Li-Ion
Cell specification	3.2 V 280 Ah
Cell Combination	160S1P
Battery Capacity	143 kWh
Max. charge and discharge power	50 kW
Max. charge and discharge current	140 A
Battery Rated Voltage (V)	512 V
Battery Voltage Range (V)	448 V-584 V

AC OUT DATA (ON/OFF GRID)

Max. AC Output Power (kVA)	55 kVA
Rated AC Output and Power (kW)	50 kW
Peak Power (off grid) (kW)	1.5 time of Rated Power, 10 s
Rated Output Voltage	400 V
AC Output Rated Current (A)	72.5 A
Voltage Range (V)	320 V-460 V
Rated Output Frequency	50/60 Hz
THDI	<3%
Power Factor	0.8 leading to 0.8 lagging
Grid Type	Three Phase
On/Off grid switch time	<20ms

PV STRING INPUT DATA

Max. DC Input Power (W)	65.0 kW
Max. DC Input Voltage (V)	DC1000 V
Start-up Voltage (V)	DC180 V
Full Load DC Voltage Range (V)	450-850V
PV Input Current (A)	36+36+36+36 A
Max. PV Isc (A)	55+55+55+55 A
No. of MPPT Trackers	4
No. of Strings Per MPPT Tracker	2+2+2+2

SPECIFICATION

Cabinet Size (W* D* H)	1180*1020*2275 mm
Weight	1780 kg
Max. cycle efficiency	≥90%
Protection	IP54
Auxiliary Power Supply	Self-Powered
Corrosion resistance rating	C3
Operating Humidity Range	0%-100% (Non-Condensing)
Operating Temperature Range	-30°C-50°C (>45°C derating)
Max. Operation Altitude	2000 m
Battery cabinet cooling method	Intelligent Air Cooling
Fire safety configuration	Gas-based Fire Extinguishing System, Pressure Relief Valve, Pack-Level Fire Protection, Cluster-Level Fire Protection
Communication	Ethernet, 485, CAN
Communication Protocol	Modbus TCP