

BUZ 230 CESS



ALL-IN-ONE-CABINET Commercial Energy Storage System



RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- All-in-one solution
- Automatic backup power for grid outages

SAFE TECHNOLOGY

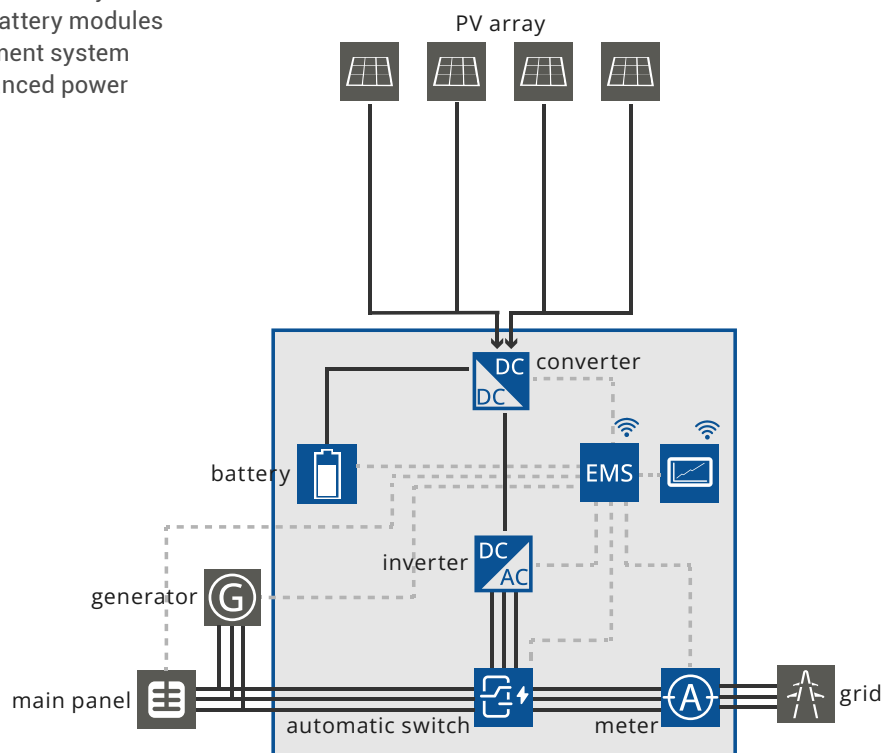
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

- Back-up power
- Peak shaving
- Micro-grids
- Demand mitigation
- Rate arbitration

SMART & HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- DC/DC converter with solar input
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance
- Unlimited number of parallel systems



POWER CESS

BUZ 230

BATTERY

Nominal capacity	233 kWh
Usable capacity (90 % DoD)	209.7 kWh
Battery technology	LiFePO ₄
Charge / discharge rate	0.5 P
Battery pack structure	1P52S (46.59 kWh) liquid cooled
BMS	integrated
Rated DC voltage	832 V
DC voltage range	663 V - 923 V
Backup function	automatic
Battery life cycle	≥ 6000 times @ 25 °C ±2 °C 0.5 P charge / discharge energy retention 80 % SOH

INVERTER

Operating voltage range (DC connection)	650 - 950 V
Max DC current	150 A
Rated AC power	100 kW
Max AC power	110 kVA @ 480 V rms
Max AC current	145 A
AC line voltage	400 V ± 15 %
AC line frequency	50 Hz
Peak efficiency	98.2 %

CONVERTER

Max. number of MPPTs	2
String operating voltage	200 – 950 Vdc
Max. current per input	80 A
Reverse polarity protection	yes
Max. power @ 25 °C	2 x 50 kW

BACKUP POWER

Grid port power	200 kW
Grid port rated current	290 A
AC/DC port power	100 kW
Load port power	100 kW
Rated frequency	50 Hz
Switch time	20 ms

ENERGY MANAGMENT SYSTEM

EMS	RCT PREMS
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COMMUNICATION

Communication protocol	Modbus TCP
Touch panel	15.6 " industrial standard
Cloud	yes
App	yes

OPERATION

Relative operating humidity	0-95 %, no-condensation
Operating temperature range	-30 °C...+50 °C
Operating altitude	≤ 2000 m

DIMENSIONS (TOTAL)

Dimensions (W x H x D)	1600 x 2200 x 1300 mm
Weight	aprox. 3300 kg

SAFTEY / STANDARDS

Protection	IP54
Safety features	a. Flammable / explosive gas detection b. Flammable / explosive gas c. Smoke detection d. Temperature detection e. Aerosol fire extinguish f. Siren and strobe alarm g. Emergency stop button h. Dry pipe and sprinkle

Certification	IEC 62619, IEC 63056, EN 62477-1, EN 61000-6-2/-4, UN38.3, IEC 60730-1, EN 62109-1/-2, EN 62477-1, EN 61000-6-2/-4, EN 62933-5-2, NRS097-2-1/BESF, VDE-AR-N 4105, CE declaration
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WARRANTY

Warranty	5 Years
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