

BUZ 1500 CESS



AC CONTAINER Commercial Energy Storage System



RELIABLE POWER SUPPLY

- 1490 kWh outdoor-rated container storage system
- AC coupled system
- Manual backup power for grid outages

SAFE TECHNOLOGY

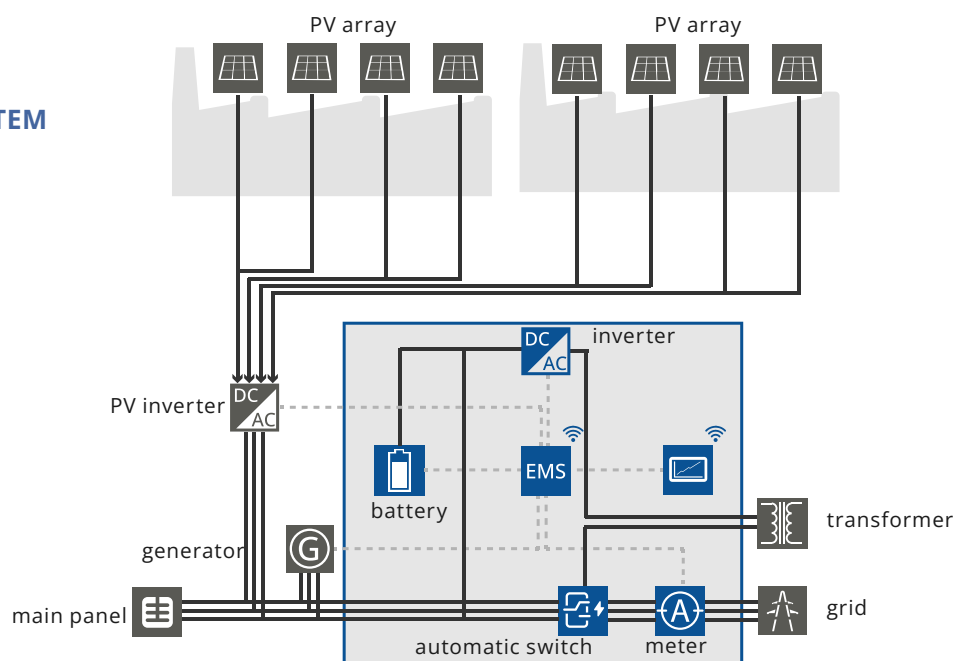
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

SMART & HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- 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

ENERGY MANAGEMENT SYSTEM

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



POWER CESS

BUZ 1500

BATTERY

Nominal capacity	1490 kWh
Usable capacity (90 % DoD)	1342 kWh
Battery technology	LiFePO ₄
Charge/discharge rate	0.5 P
Battery pack structure	1P52S (46.59 kWh) liquid cooled
BMS	integrated
Backup function	manual
Battery life cycle	≥ 6000 times @ 25 °C ±2 °C 0.5 P charge / discharge energy retention 80 % SOH

INVERTER

Max AC power	822 kVA (205.7 kVA x 4) @690 Vrms
Grid Transformer	not included
Operating voltage range	1060 - 1500 Vdc
Full power voltage range	1000 - 1500 Vdc
Max AC current	688 A (172 A x 4)
AC line voltage	690 Vac (- 15 % to 10 %)
AC line frequency	50 Hz ± 5%
Current harmonics	< 3 % @ rated AC power
Peak efficiency	99 %

ENERGY MANAGEMENT SYSTEM

EMS	RCT PREMS
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COMMUNICATION

Communication protocol	Modbus TCP
Cloud	yes
App	yes

OPERATION

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

DIMENSIONS

Dimensions (L x H x D)	6058 x 2896 x 2438 mm
Weight	aprox. 17 to

SAFETY / STANDARDS

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

WARRANTY

Warranty	5 years
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