



BlueArk W10

C&I Energy Storage System



Ultimate Safety

- Multi-Level Protection: Cell-to-cabinet safety with partitioned thermal isolation.
- Zero-Risk Operation: AI real-time diagnostics and 3S (Safety, Smart, System) strategy.



High ROI

- Cost-Effective: Deep discharge and high conversion efficiency maximize returns.
- Flexible Scaling: Modular expansion (261kWh - 6.3MWh) with a compact footprint.



Grid Resilience

- Stable & Adaptive: Steady output in weak grids; corrects 3-phase unbalance.
- Precise Control: Supports AGC/AVC for seamless grid dispatch integration.



Smart O&M

- Effortless Management: Full-link BCS monitoring and cloud-based data optimization.
- Cost Reduction: Modular quick-swap design and proactive remote alerts cut labor costs.

AC Side (Grid-Connected Mode)

Rated Voltage	400Vac, 3W+N+PE
AC Voltage Range	340V ~ 460 V
Rated Output Power	125kVA
Maximum Output Power	138kVA
Maximum Output Current	200A
Power Factor	0.99
Power Factor Range	1 (leading) ~ 1 (lagging)
Rated Frequency	50/60Hz (±5Hz)
Overload Capability	110% continuous
Current THD	<2% (at rated power)
DC Component	≤0.5%

AC Side (Off-Grid Mode)

Rated Output Voltage	230/400V
Voltage THD	< 3%
Rated Frequency	50/60Hz (±5Hz)
Rated Output Power	125kVA
Maximum Apparent Power	138kVA
Maximum Output Current	200A

DC Side Parameters

Cell Type	LFP 3.2V/314Ah
Rated Capacity	261kWh
System Configuration	1P260S
Rated Voltage	832V
DC Voltage Range	728 V ~ 936 V
DC Protection	Contactors + Fuse
Rated Charge/Discharge Rate	0.5P
Operating Temperature	-30°C to 50°C (derating above 45°C)
Relative Humidity	5%- 95% RH, non-condensing
Altitude	≤3000m
Ingress Protection	IP55
Corrosion Protection	C3 / C4M (optional)
Cooling Method	Intelligent liquid cooling
Fire Suppression System	"Combustible gas detector, aerosol / FK-6-1-12 (Novec 1230 equivalent), sound & light alarm; optional water-immersion extinguishing and explosion vent panel"
Communication	Modbus TCP/IP MQTT
Auxiliary Power	Self-powered
Cycle Life	8000 cycles @ 70% SOH
Noise	≤75dB
Depth of Discharge (DOD)	95%DOD
Installation Location	Outdoor
Dimensions (W × H × D)	1000mm*2400mm*1350mm
Weight	approx. 2.7T
Certifications	CE-LVD-62477/CE-EMC-61000/UN38.3/EN 50549-1/EN 50549-2/