

ZR UT860 Utility Energy Storage System



SYSTEM INTEGRATION

Pre-installed and pre-commissioned modular design to reduce on-site work.
Optional STS, PCS, and MPPT configurations according to system variant.



PERFORMANCE AND EFFICIENCY

High-efficiency PCS up to 98.5% (if equipped).
Supports seamless on-grid and off-grid operation.



THERMAL MANAGEMENT

Liquid cooling system with cell temperature difference $\leq 2.5^{\circ}\text{C}$.
Optimized thermal balance for reduced heat loss and stable performance.



MONITORING AND CONTROL

Remote monitoring and control via cloud platform or mobile application.
Easy maintenance with real-time alarms and remote upgrade.



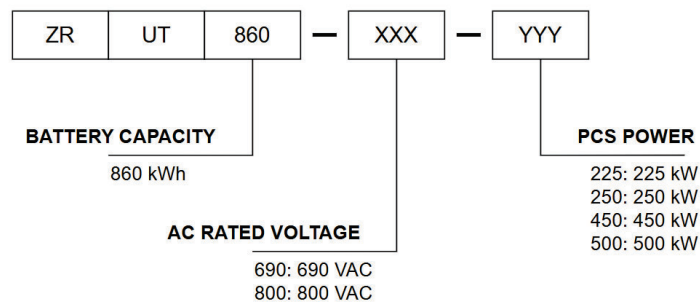
SAFETY AND RELIABILITY

Three-level protection: PACK, RACK, and System.
Fire prevention design with early thermal detection and protection functions.



FLEXIBILITY AND SCALABILITY

Modular architecture for parallel expansion.
Customizable configurations for various commercial and industrial needs.



NOTE:

For a nominal voltage of 690 VAC, a 225 kW or 450 kW PCS should be selected.
For a nominal voltage of 800 VAC, a 250 kW or 500 kW PCS should be selected.

Technical data		ZRUT860 - XXX - YYY		
DC side				
Cell type	LFP 3.2 V / 350 Ah			
System battery configuration	384S2P			
Rated capacity	860 kWh (*)			
Rated voltage range	1075 V ~ 1382 V			
AC side				
Rated voltage	690 V		800 V	
Voltage deviation	-15%~+10%			
AC Output type	3W+PE			
Rated output power	225kW	450kW	250kW	500kW
Max. output power	240kVA	480kVA	275kVA	550kVA
Max. Current	201A	402A	198A	396A
Rated grid frequency	50/60Hz			
Power factor	0.99			
Power factor range	-1 lagging ~ +1 leading			
Current distortion rate	< 3% (@rated power)			
Overload capacity	110% long term			
Max. Efficiency	≥98%			
System parameter				
Dimensions (W * D * H)	1294 mm * 2250 mm * 2200 mm			
Weight	6900 kg			
Degree of protection	IP54			
Anti-corrosion degree	C5 (Optional) C3 (Default)			
Operation humidity range	0 % ~ 100 %			
Operation temperature range	-20 ~ 50 (> 45 derating)			
Max. operating altitude	3000 m			
Temperature control method	Intelligent liquid cooling			
Noise	≤ 70 dB (A) @ 1m			
Fire suppression system	Flammable gas detector, Smoke-Heat detector, Alarm sounder, Aerosol, Sprinkler, Ventilation system			
Communication interface	Ethernet			
Communication protocol	Modbus TCP			
Standard	IEC 62619, IEC 63056, IEC 62040, IEC 62477, UN 38.3			
Max.Parallel quantity	6			

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Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in datasheets are subject to change without notice.

