

Netzr

ZRCI318 C&I 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 ≤ 2.5 °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.



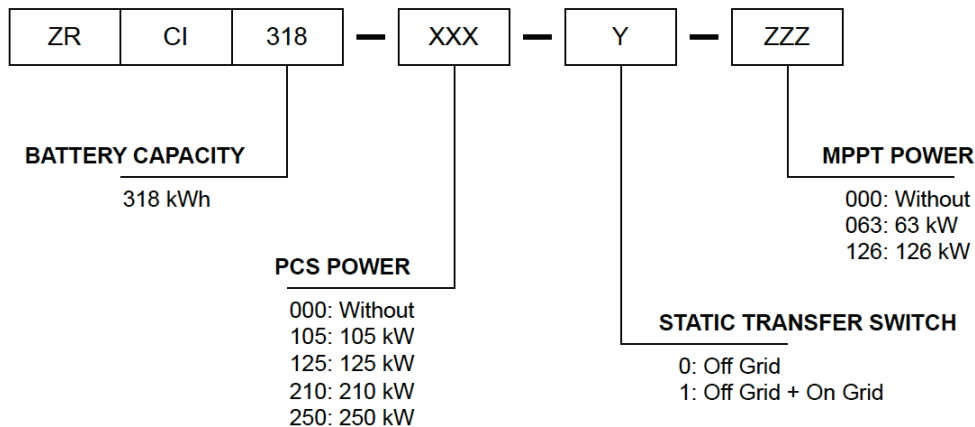
SAFETY AND RELIABILITY

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.



Technical Data		ZRCI318 - XXX - Y - ZZZ			
DC side					
Cell type		LFP 3.2 V / 222 Ah			
System battery configuration		224S2P			
Rated capacity		318 kWh (*)			
Rated voltage range		680 V ~ 795 V			
AC side (on-grid)		(**) (***)			
Rated voltage		400 V			
Voltage deviation		-15%~+15%			
AC Output type		3W+N+PE			
Rated output power	105kW	125kW	210kW	250kW	
Max. output power	116kVA	137.5kVA	232kVA	275kVA	
Max. Current	167A	200A	334A	400A	
Rated grid frequency		50Hz			
Power factor		0.99			
Power factor range		-1 lagging ~ +1 leading			
Current distortion rate		< 2% (@rated power)			
Overload capacity		110% long term			
Max. Efficiency		≥98%			
Switching time		< 20ms			
AC side (off-grid)		(***)			
Rated voltage		400 V			
AC voltage harmonics		< 3% (@linear load)			
Rated frequency		50Hz			
Rated output power	105kW	125kW	210kW	250kW	
Max. apparent power	116kVA	137.5kVA	232kVA	275kVA	
Max. Current	167A	200A	334A	400A	
MPPT		(****)			
Rated power	63kW		126kW		
Long-term overload power	70kW		140kW		
Voltage range		400V~900V			
Maximum current	160A		320A		
Maximum efficiency		99%			
System parameter					
Dimensions (W * D * H)		1650 mm * 1350 mm * 2250 mm			
Weight		3200 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 (off-grid)		8			