

GR5000L



MSDS



UN38.3



Features



Ultimate Reliable

- Optional semi-solid batteries, 80% lower thermal risk
- Compliant with international standard certification
- High protection up to IP55 and C4 anti-corrosion level
- Multi-level fire protection and battery protection



Maximum Efficiency

- Smart liquid Cooling System for efficient dissipation
- Automatic optimal EMS strategy control for best efficiency
- Self-developed BMS and EMS, project-level customization
- Integrate artificial intelligence algorithms



Infinite Flexibility

- DC-side system supporting flexible cluster reduction
- Supports two DC voltage levels: 1500V and less than 1000V.
- Cloud O&M, fast fault analysis and handling
- Multiple applications with different AC-side systems

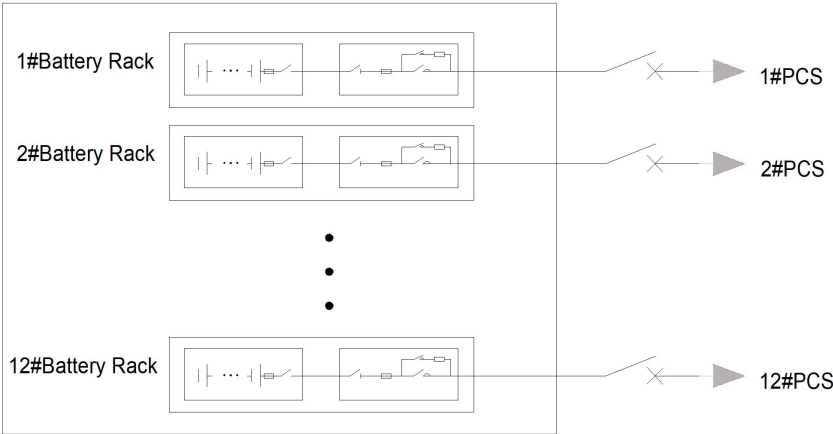
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Specification Parameters

Model	GR5000L
DC Side	
Cell type	LFP / 314Ah
Max battery capacity (BOL)	5016 kWh
System configuration	(52S1P) 8S * 12
Rated DC voltage	1331.2 V
DC voltage range	1123.2 ~ 1497.6 V
Charge/discharge rate	≤0.5P
Cooling Method	Liquid cooling
System Parameter	
Demension(W*H*D)	6058 * 2896 * 2438 mm
Weight	≤ 43 T
Cycle performance	≥ 8000 cycles; @ 25 ± 2 °C, 0.5P, SOH ≥ 70%
Max System Efficiency	94%
Fire suppression system	Aerosol / NOVEC1230 / FM200 (Support PACK level) + Flammable Gas Detection + Exhaust + Water Sprinkler System
Operating ambient temperature range	-30~55°C (-30~-20°C with Heater)
Max operating altitude	4,000m (de-rate between 2000-4000m.)
IP rating	IP 54 (IP 55 Optional)
Communication Protocol	Modbus TCP / Modbus RTU / CAN 2.0 / IEC104
Communication Interface	Ethernet / RS485 / CAN / Domestic 4G
Remote monitoring	Cloud EMS, Mobile APP
Anti-corrosion Level	C3 (C4 Optioal)
Certifications	IEC62619,UN3536, UN38.3
Application scenarios	Utility, C&I energy storage