BESS MODULAR CABINET

EGS257 (125kW/257kWh)

- **Category:**
  Liquid Cooling BESS Cabinet
- **Application:**
  Remote Area, EV Station, Industrial & Commercial, Residential, Frequency Regulation, Power Station
- **Benefits:**
  Enhanced Grid Reliability and Resilience, Cost Savings, Environmental Benefits, Energy Independence, Improved Power Quality, Scalability and Flexibility, Support for Electrification
- **Hardwares:**
  Packs, BMS, HV Box, PCS, PDU, FFS, EMS Controller Set, Enclosed Cabinet
- **Software:** BMS, EMS
- **Cloud Platforms:** Renepoly Cloud



Technical Parameters	
AC Side (Grid Tied Scenario)	
AC Output Power	125kW @ 45°C
Max. AC Output Power	135kW
Nominal AC Voltage / Range	277/480 Vac, 3W+N+PE or 3W+PE
Nominal Grid Frequency/Range	60Hz
Harmonic(THD)	<3% (at Nominal Power)
Power Factor at Nominal Power/Adjustable	-1 ~ 1
Cooling Concept of PCS Chamber	Air Cooling
Seamless Switching from Grid to BESS In Case of Power Outage	Optional
AC Side (Microgrid Scenairo)	
Nominal AC Voltage	277/480 Vac, 3W+N+PE or 3W+PE
Harmonic (THD)	< 2% (Resistance Load)
Nominal Frequency/Range	60Hz/55Hz ~ 65Hz
Max. AC Power	135kW
Batteries	
Nominal Battery Voltage	819.2VDC
Battery Type	LiFePO4 3.2V/314Ah
Battery Pack Configuration	1P64S/64.3024kWh
Battery System Configuration	1P256S
Capacity	257.2288kWh
Battery Voltage Range	716.8-921.6VDC
Max Output Power	135kw
Battery Disconnect	Integrated
Cooling concept of battery chamber	Liquid Cooling
General Parameters	
Dimension W*D*H	1050*1600*2050mm
Charge/Discharge Rate	0.5C
Depth of Discharge	95%
Life Cycle	6000
Degree of Protection	IP55
System Efficiency	~91% (Without Auxiliary Equipment Energy Consumption)
Cooling Liquid	50% Ethylene glycol+50% Water
Fire Protection System	Aerosol
Allowed Ambient Temperature	-30 ~ 60℃ (>45℃ Derating)
Allowed Relative Humidity	0 ~ 95%
Working Altitude	<2000m
Enclosure Corrosion Resistance Level	C3 (C4/C5 Optional)
Weight	~3200kg
SPD	DC TYPEⅠ/AC TYPEⅡ
Lifting Options	Fork/Crane
Scalability	Yes, Units Can Be Connected In Parallel
Monitoring	
Display	7 Inches Touchscreen
Communication	RS485/Ethernet
Communication Protocols	MODBUS-RTU/MODBUS-TCP
Remote Control System	Renepoly Cloud
Certifications	
Battery Cell	CE, RoHS, UN38.3, MSDS, UL, ESG
Battery Pack	CE, UL, UN38.3, MSDS
Battery Rack	CE, UL, UN38.3, MSDS
Power Conversion System	IEEE 1547, UL 1741 SB
Whole Unit	CE, UN38.3, MSDS, UL 9540, UL 9540A, UL1973, FCC PART 15 B, UL 60730, IEEE 1547, UL 1741 SB