



FPR-ESS-135kW/282kWh-0.48kV

FPR-ESS-135kW/289kWh-0.48kV

FPR-ESS-75kW/289kWh-0.48kV



Safe & Reliable

- Multi-level system prevention and protection from cell to the system.
- Compliance with global system safety standards.

Flexible & Scalable

- High energy density solution scalable as per project needs.
- Intelligent liquid cooling system with wide ambient temperature range.

Smart

- Health status detection
- Intelligent thermal management
- Multi-mode operation

Cost saving

- Highly integrated plug and play solution for easy transportation, installation, and O&M.
- Pre-module assembled tested at factory, delivered at site for ready installation.

FPR-ESS-282kWh/289kWh

System Model	FPR- ESS-135kW/282kWh- 0.48kV	FPR- ESS-135kW/289kWh- 0.48kV	FPR-ESS-75kW/289kWh- 0.48kV
Battery Parameters			
Battery Cell Type	LFP/306Ah	LFP/314Ah	LFP/314Ah
Battery Configuration	1P288S	1P288S	1P288S
Battery Capacity at DC Side (BOL)	282kWh	289kWh	289kWh
Maximum C Rate / Nominal Discharge Duration	0.5C / 2 Hours	0.5C / 2 Hours	0.26C / 3.85 Hours
Battery Rated Voltage	921V		
Battery Voltage Range	806V~1,000V		
Battery Cooling Method	Liquid Cooling		
AC Parameters			
Rated Power	135kW	135kW	75kW
Rated Voltage	480V±10%		
Rated Frequency	60Hz		
Max.THD of Current	< 3% (at nominal power)		
General Parameters			
Topology	Transformerless		
Size(W*H*D)	1,350*2,400*1,350mm (4.43*7.87*4.43 ft)		
Weight	3,000kg		
IP Level	IP54		
Anti- Corrosion	C4 Standard, C5 Optional		
Fire Protection System	Aerosol, Smoke, and Temperature Detector. NFPA 68-Compliant Deflagration Panel, NFPA 69- Compliant Ventilation System with Combustible Gas Detection(Optional).		
Operating Temperature	-30°C~50°C(>45°C derating) / -4°F~122°F (>113°F derating)		
Max. Operating Altitude	3,000m		
Communication Protocol	Modbus TCP/IP		
Communication Interface	RS485 / Ethernet		
Complicance Standard	UL 1741-SB, UL 1973:2022, UL9540A, UL9540:2020, IEEE1547:2018, UN38.3, FCC part15B		

*Specifications are subject to change without prior notice.

FPR Connectivity Pte. Ltd.

Address: #19-02, 20 Collyer Quay, Singapore

Email: sales01@fprconn.com

Tel: +1(613) 2619849

FPR New Energy Technology Co., Ltd.

Address: Building 9, Shenzhen Software Park II, Nanshan, Shenzhen, China

Tel: +86-755-26914599

Website: www.fpr-newenergy.com



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