eSpire 233

COMMERCIAL AND INDUSTRIAL BATTERY STORAGE

125 kW PCS (inverter)

233 kWh ESS (battery)

Supported Applications

- Peak shaving for demand charge management
- Load shifting for time-of-use savings
- Real and reactive power compensation to improve power quality
- Standalone operation in off-grid mode for power backup
- Store excess solar energy during the day and use at another time

Product Features

Safe Technology & Multi-level Protection
The solution uses the best-in-class Tier 1 Lithium Iron Phosphate (LFP) chemistry for the highest level of safety, thermal stability, and reliability; An integrated, multi-level Battery Management System (BMS) monitors, optimizes, and balances the system.

Compact Design for Flexible Install
The product has a slick and compact design that can be flexibly fit into indoor and outdoor space.

Advanced Liquid Cooling for the Extended Battery Lifespan
The unique liquid cooling system optimizes the battery thermal performance by 3 times, which extends the battery lifespan and increases your investment.

Turnkey System for Fast Install
Fully integrated, pre-configured package system reduces on-site installation time; includes inverter(s), battery trays, racks, BMS, local Controller, HVAC, fire suppression, isolation transformer and outdoor rated enclosure.

Easy & Flexible to scale (Easy scalability)
This outdoor rated, modular solution can be expanded to 3.50 MWH capacity easily (Max. 15 unit in parallel).

Excellent Local Support
Our US based technical support team can help you from project design to completion.

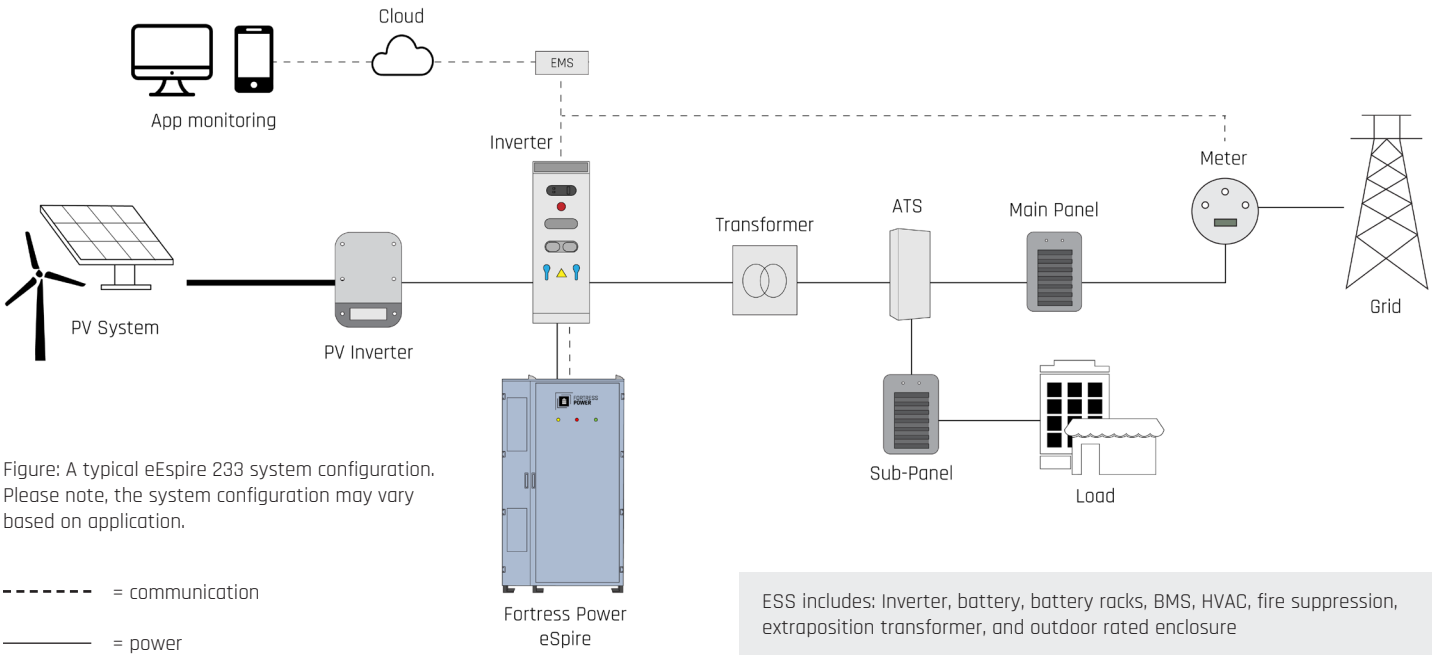

Figure: A typical eEspire 233 system configuration. Please note, the system configuration may vary based on application.

= communication

= power

ESS includes: Inverter, battery, battery racks, BMS, HVAC, fire suppression, extraposition transformer, and outdoor rated enclosure

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FORTRESS POWER
Secure your energy

Model	eSpire 233	
Battery Data		
Battery Bank Capacity (kWh)	233	
Nominal Voltage (V)	832	
Operation Voltage Range (V)	728.5 ~ 936.4	
Battery Capacity (Ah)	280	
Battery Structure	1P260S (5pack)	
Cell Type	LFP Prismatic	
Cycle Life @25 C	>6000	
DOD	90%	
Ambient Working Temperature	-25 ~ 45 C (-13 ° F - 113 ° F)	
Cooling	Integrated Liquid Cooling	
Battery Bank Scalability	up to 15 (3.5 MWh)	
Inverter Data		
Rated AC Output Power (kVA)	125	
Rated Grid Voltage Inverter Output	480V Delta	
Rated Grid Voltage at Transformer	480V Phase Y (Wye)	
Grid Voltage Range Vac	422.4 to 528 V (-12%, +10%)	
Rated Grid Frequency (Hz)	60 / 50 Hz	
Rated AC Current	150.4 A	
Max. Continuous AC Current	167 A	
Current THD	IEEE 1547 Compliant, <3% at rated power	
Power Factor	-1 to 1	
Transformer Rating	125 kVA	
System Data	**Battery**	**Inverter**
Ambient Working Temperature	-25 ~ 45 C (-13 ° F - 113 ° F)	
Storage Temperature Range	-25 ~ 55 C (-13 ° F - 131 ° F)	
Unit Dimension (W x D x H)	1,300 x 1,300 x 2,280 mm (51.2 X 51.2 X 89.8 in)	600 x 800 x 1,766 mm (23.6 X 31.5 X 69.5 in)
Packing Weight kg/lb	2510 / 5533	310 / 683
Packing Dimension (W x D x H)	1,300 x 1,300 x 2,340 mm (51.2 x 51.2 x 92.1 in)	1000 x 1,200 x 2,000 mm (39.4 x 47.2 x 78.7 in)
Packing Weight kg/lb	2525 / 5566	418 / 921
Certification	UL1973, UL9540(pending), UL9540A, UL1741/1741SA(pending), IEC62619, IEC62477-1, IEC61000-6-2/4 GB/T 34133-2017, UL1741, IEEE1547.1, UL1741SA, IEC62477, IEC61000	

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