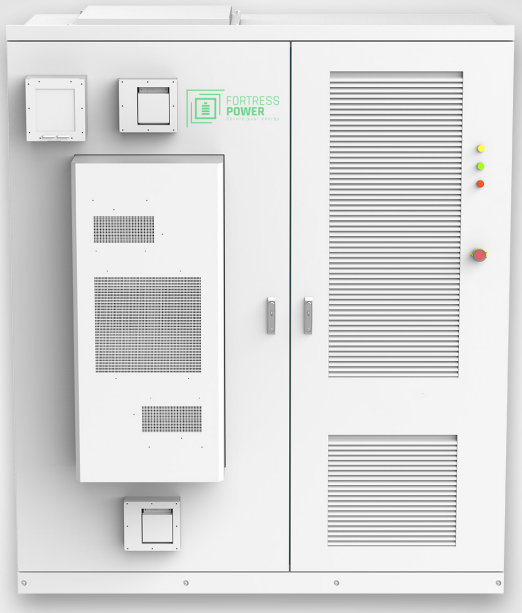
eSpire mini

FULLY INTERGRATED, PRE-CONFIGURED ENERGY STORAGE SOLUTION

FORTRESS POWER
Secure your energy



ONE SOLUTION FOR ALL

- Large Residential - Light Commercial (3Ph 208/480Vac @ 60Hz)
- Microgrid, Backup, Off-Grid, Peak Shaving, Time of Use, Self-Supply, Demand Response, and VPP
- AC and DC Coupling Options
- Scalable Energy Storage Capacity (81 - 266 kWh per unit)
- Indoor and Outdoor Installation

Sample Applications

Residential homes & Multi-family

Grocery Stores & Convenience Stores

Charging Stations & Service Areas

Schools, Banks, & Hospitals

Product Features

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

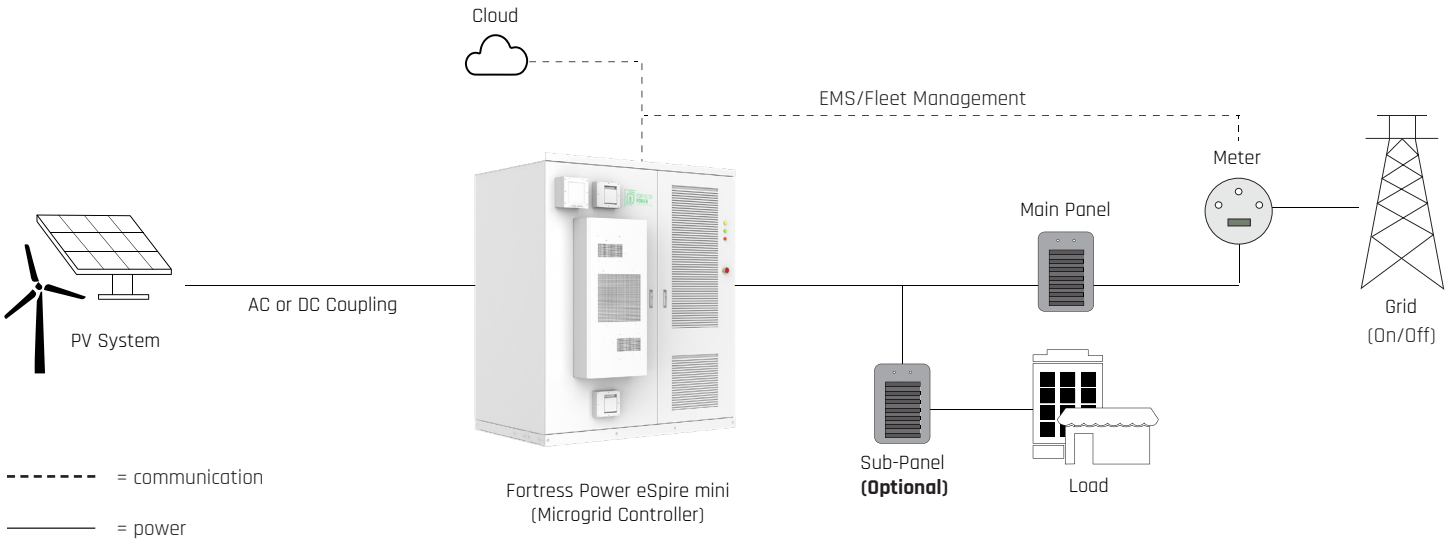
Built-in Microgrid Controls
Ability to integrate with solar, genset, wind, micro-turbines, utility, or other distributed energy resources.

Adaptive Intelligent EMS / Fleet Management
Intelligent software to reduce electricity cost, prepare for resiliency, and maximize return on investment. Remote operation and maintenance for multiple sites.

Safe Technology & Multi-level Protection
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.

Easy & Flexible to scale (Easy scalability)
This outdoor rated, modular solution can be expanded depending on the energy and power requirement at either 208Vac or 480Vac with a maximum of 2 units in parallel.

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



eSpire mini

FULLY INTERGRATED, PRE-CONFIGURED ENERGY STORAGE SOLUTION

FORTRESS POWER
Secure your energy

Battery Capacity	81/122/184 kWh	122/184/244 kWh	184/266 kWh
DC Data			
Battery Chemistry	Lithium Iron Phosphate		
Cell Life Cycle	80% Retention with 6,000 cycles @ 1 C 25 C		
Cell Spec	3.2Vdc / 100Ah		
Cell Configuration/Pack	2P16S		
Pack Spec	51.2 V / 200 Ah		
Pack Nominal Energy (kwH)	10.24 kWh		
String Rack Configuration	1P8S	IP12S	2P9S
Rack Nominal Energy	81 kWh	122 kWh	184 kWh
Rack Nominal Voltage	409.6 Vdc	614.4 Vdc	460.8 Vdc
Voltage Range	358.4 - 467.2 Vdc	537.6 - 700.8 Vdc	403 - 525.6 Vdc
BMS Communication Interface	RS485 via Serial, Ethernet via Cat 5 or Cat 6		
BMS Communication Protocol	Modbus RTU, Modbus TCP		
AC Data			
PCS Rated AC Power	30 kW	60 kW	90 kW
Rated Grid Voltage	480 Vac / 208 Vac	480 Vac / 208 Vac	480 Vac / (208 Vac)*
Grid Voltage Range	± 15% / ± 10%		
AC Rated Current	36.1 / 83.3 Amps	72.2 / 166.5 Amps	108.3 / 250 Amps
Islanding Switch	100 kW Autotransfer Switch (ATS) Active Switching Transfer Time: Seamless		
Output THDi	≤ 3%		
Grid Connected Power Factor	1 (leading) ~ 1 (lagging)		
Grid Frequency Range	50 Hz / 60 Hz ±2.5%		
Wiring Configuration	3 Phase 4 Wire (3P4W Configuration)		
PV Input (DC Coupled Only)			
PV Input Power	45 kW	90 kW	135 kW
PV Input Voltage Range	200 - 810 Vdc		
General Data			
Dimensions without Clearance (W x D x H)	82.7 x 47.2 x 92.5 in (2100 x 1200 x 2350 mm)		
Weight of Whole System	Up to 5253.5 lbs		
Enclosure Degree of Protection	NEMA 3R / IP54		
Operating Temperature Range	-22 F to 131 F (-30 C to 55 C)		
Relative Humidity	0 ~ 90% (No Condensing)		
Max Altitude	10,000 ft (3,000 m)		
Noise Level	70 dB		
Cooling System	Forced Air Cooling		
Communication Interface	RS485, Ethernet, HMI		
Certificates	UL1973, UL9540(A), UL1741-SB, IEEE-1547, IEEE-519, (UL9540, CEC, SGIP pending)		

()* External Transformer is required