

# eSpire mini

FULLY INTERGRATED, PRE-CONFIGURED TURNKEY SOLUTION



## ONE SOLUTION FOR ALL

- Large Residential - Light Commercial (3Phase 208vac/480vac @ 60Hz)
- AC and DC Coupling Options
- Indoor and Outdoor Installation
- Microgrid, Backup, Peak Shaving, Demand Response, Load Shifting
- Scalable Energy Storage Capacity (81 - 266 kWh)

## 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, local Controller, HVAC, fire suppression, isolation transformer and outdoor rated enclosure.

### Optional Microgrid Controls

Ability to integrate with solar, genset, wind, utility, or other distributed energy resources.

### Optional Adaptive EMS and Fleet Management

Intelligent software to reduce electricity cost, prepare for resiliency, and maximize return on investment. Remote operation and maintenance.

### Safe Technology & Multi-level Protection

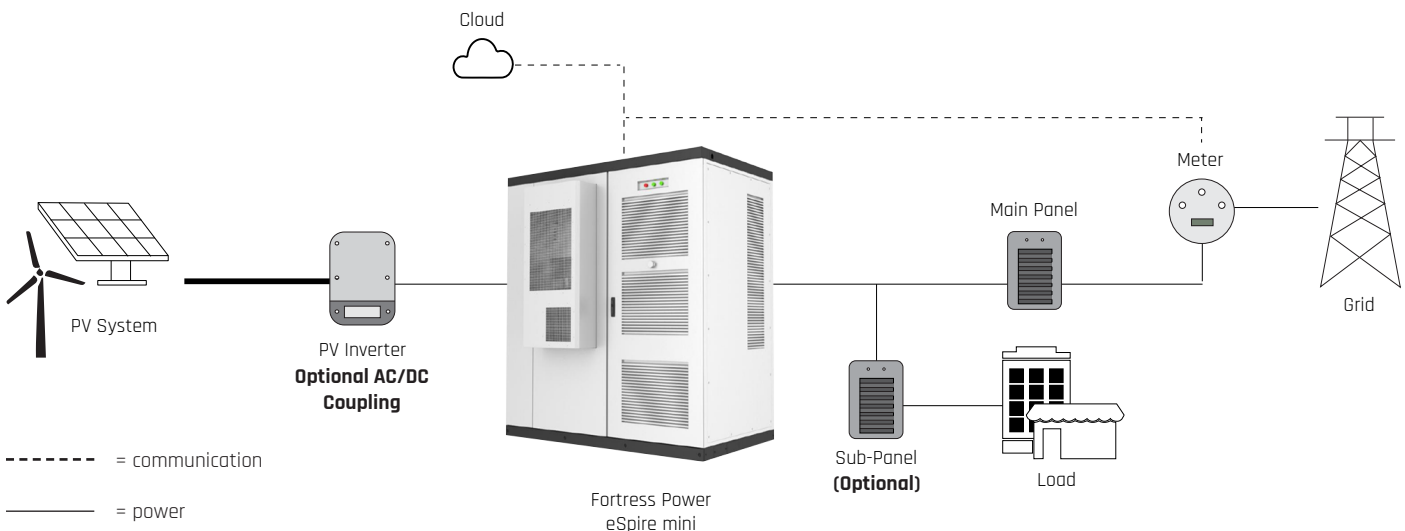
**Tier 1 Lithium Iron Phosphate (LFP) chemistry** for the highest level of safety, thermal stability, and reliability; An integrated, multi-level Battery Management System (BMS) monitors, optimizes, and balances the system.

### 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.



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Battery Capacity	81 kWh	122 kWh	181 kWh
<b>DC Data</b>			
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	1P12S	2P9S
Rack Nominal Energy	81 kWh	122 kWh	181 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		
<b>AC Data</b>			
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
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)		
<b>PV Input (DC Coupled Only)</b>			
PV Input Power	45 kW	90 kW	135 kW
PV Input Voltage Range	200 - 810 Vdc		
<b>General Data</b>			
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	-30C to 55C		
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)		