

# eSpire Mini

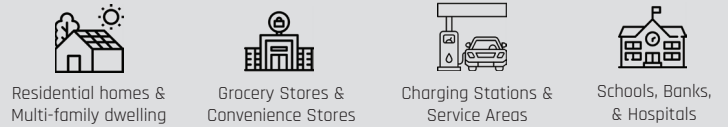
FULLY INTEGRATED, PRE-CONFIGURED ENERGY STORAGE SOLUTION



## ONE SOLUTION FOR ALL

- Large Residential - Light Commercial
- Microgrid, Backup, Off-Grid, Peak Shaving, Time of Use, Self-Supply, Demand Response, and VPP
- AC and DC Coupling Options
- Scalable Energy Storage Capacity
- Indoor and Outdoor Installation

## Sample Applications



## 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

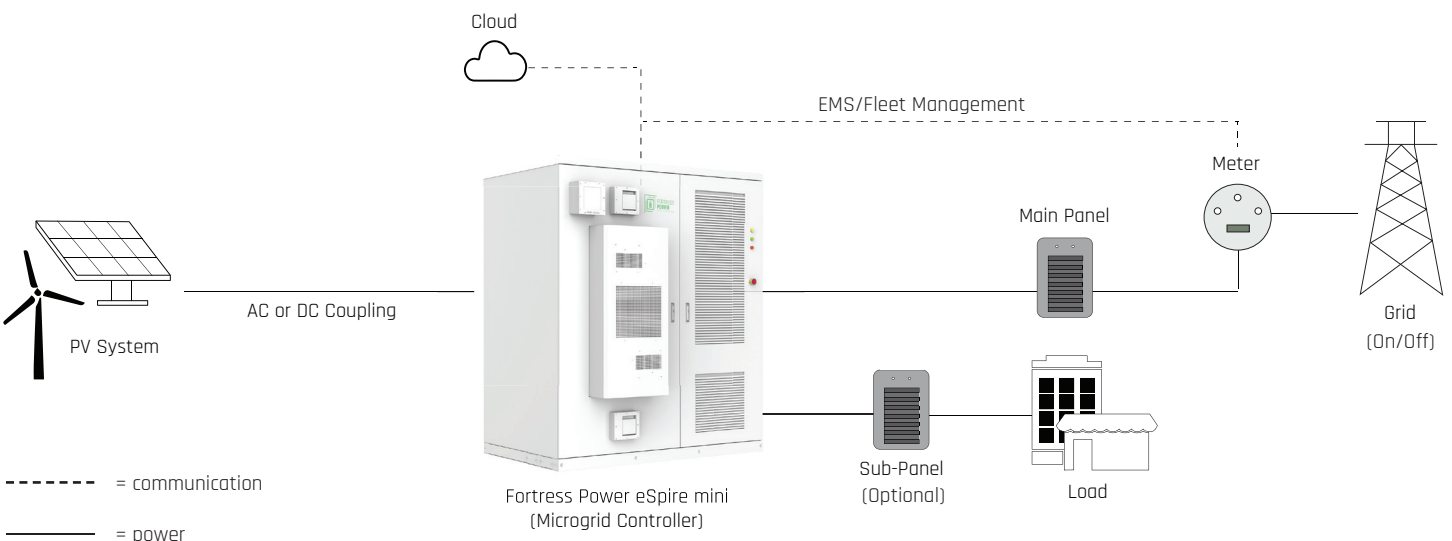
**Tier 1 Lithium Iron Phosphate (LFP) chemistry** for the highest level of safety, thermal stability, and reliability; An integrated, multi-level Battery Management System (BMS) monitors, optimizes, and balances the system.

### 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.



Three-Phase 208 VAC

Three-Phase 480 VAC

AC Data	PCS Rated AC Power	30 kW	40 kW	50 kW	40 kW	60 kW	90 kW
	Rated Grid Voltage	Three-Phase 208 VAC			Three-Phase 480 VAC		
	AC Rated Current	83.3 A	111 A	138.8 A	48.1 A	72.2 A	108.3 A
	Grid Voltage Range	± 15%					
	Output THDi	≤ 3%					
	Automatic Transfer Switch timing	20ms					
	Grid Frequency Range	50 Hz / 60 Hz ±2.5%					
	Grid Connected Power Factor	1.0 leading to 1.0 lagging (Adjustable)					
	Wiring Configuration	3 Phase 4 Wire (3P4W Configuration)					

DC Data	Battery Capacity	81/122/184 kWh	81 kWh	122/184/245 kWh	81 kWh	122/184/245 kWh	184/245/266 kWh
	String Rack Configuration	1P8S/1P12S /2P9S	1P8S	1P12S/2P9S /2P12S	1P8S	1P12S/2P9S /2P12S	2P9S/2P12S /2P13S
	Rack Nominal Voltage	410/614/460 VDC	410 VDC	614/460/614 VDC	410 VDC	614/460/614 VDC	460/614/665 VDC
	Battery Chemistry	Lithium Iron Phosphate					
	Cell Spec (Nominal voltage/Capacity)	3.2 VDC / 100 Ah					
	Pack Configuration	2P16S					
	Pack Spec (Nominal voltage/Capacity)	51.2 VDC / 200 Ah					
	Pack Nominal Energy	10.24 kWh					
	Voltage Range	310 – 750 VDC					
	BMS Communication Interface	RS485 via Serial, Ethernet via Cat 5 or Cat 6					
BMS Communication Protocol	Modbus RTU, Modbus TCP						

PV Input (DC Coupled Only)	PV Input Power	45 kW	90 kW	90 kW	90 kW	90 kW	135 kW
	PV Input Voltage Range	200 – 830 VDC					
	MPPT per charge controller	3					
	Strings per MPPT	2					
	Current Rating per MPPT	35 A					

General Data	Dimensions without Clearance (W x D x H)	82.7in x 51.18in x 97.05in (2100mm x 1300mm x 2465mm)					
	Weight of Whole System	Up to 8860 lbs					
	Enclosure Degree of Protection	NEMA 3R / IP54					
	Operating Temperature Range	5 °F to 122 °F (-15 °C to 50 °C)					
	Relative Humidity	0 ~ 90% Non Condensing					
	Max Altitude	10,000 ft (3,000 m)					
	Noise Level	70 dB					
	Thermal Management System	HVAC (Forced Air)					
	Communication Interface	RS485, Ethernet, HMI					
	Warranty	10 years, 70% Retention with 8,000 cycles @ 25 °C					
Certificates	UL1973, UL9540(A), UL1741-SB, IEEE-1547, IEEE-519, UL9540, SGIP, CEC, OGP						