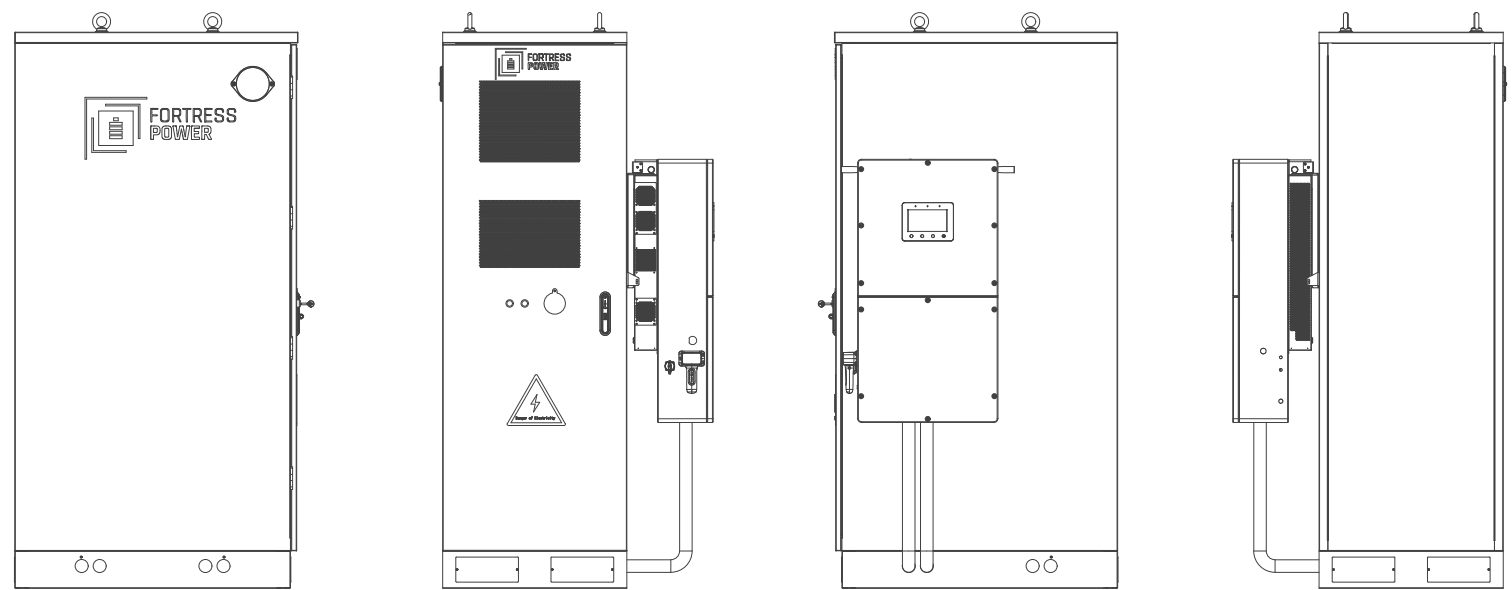


eSpire Nano Recommended Configurations

Per Different Size of Inverter

Inverter Size*	Battery Size	Operating Voltage
30 kW	40 kWh	208/480
30 kW	80 kWh (2 x 40 kWh)	208/480
30 kW	60 kWh	208/480
30 kW	120 kWh (2 x 60 kWh)	208/480
60 kW	60 kWh	480
60 kW	80 kWh (2 x 40 kWh)	480
60 kW	120 kWh (2 x 60 kWh)	480

* Up to six inverters can be paralleled.



eSpire Nano

PRE-CONFIGURED DC/AC COUPLED ENERGY STORAGE
SOLUTION FOR COMMERCIAL + INDUSTRIAL APPLICATIONS





ONE SOLUTION FOR ALL

- Load shifting for time-of-use savings
- Microgrid, Backup
- Self-Supply
- Off-Grid
- VPP Scalable Energy Storage Capacity
- Indoor and Outdoor Installation
- Peak shaving for demand charge management

SUPPORTED APPLICATIONS



Grocery & Convenient Stores



Schools, Banks & Hospitals



Manufacturing Plants



Charging Stations & Service Areas

PRODUCT FEATURES

Turnkey Outdoor Energy Storage System

- Pre-configured BESS with inverter(s), LFP battery, BMS & intelligent climate control.
- Integrated anti-islanding functionality.

Built-in Microgrid Controls

Supports seamless integration with solar PV, diesel generators and grids.

Safe Technology with Multi-level Protection

- Powered by Tier 1 Lithium Iron Phosphate chemistry.
- Advanced BMS for real-time monitoring, balancing & protection.
- High thermal stability and long-term reliability.

Intelligent EMS (Energy Storage System) & Fleet Management*

Advanced software deliveries:

- Lower electricity costs, optimized ROI, enhanced system resiliency.
- Remote monitoring, control, and maintenance across your installation portfolio.

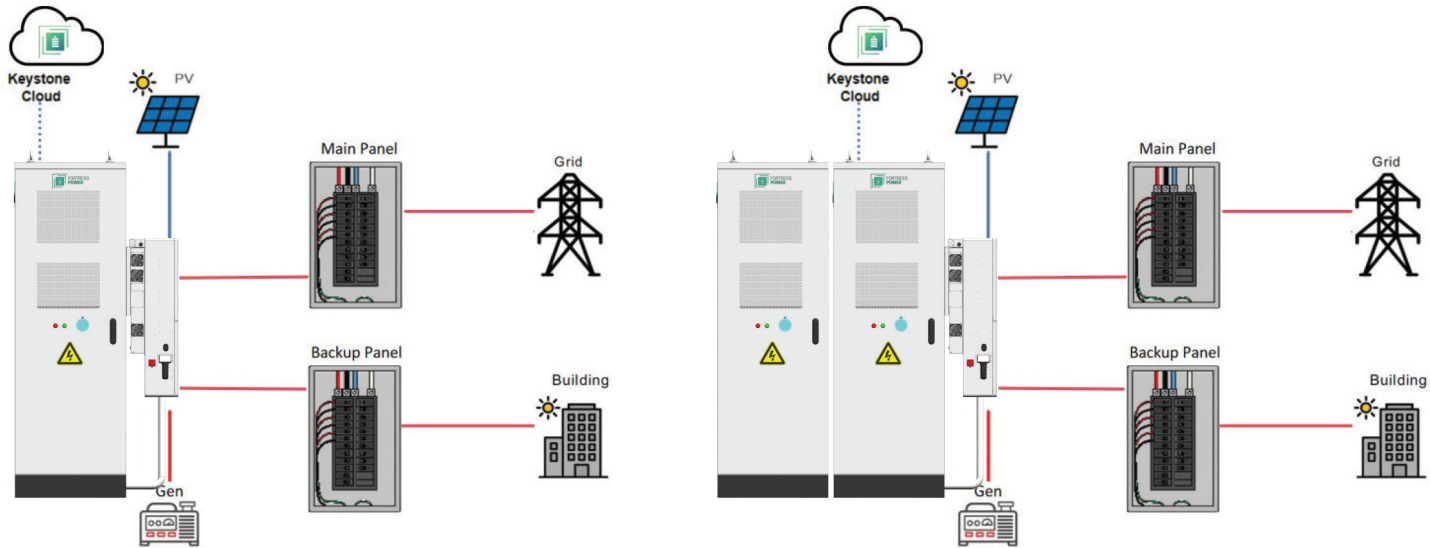
Modular, Scalable & Outdoor-Rated

- This outdoor-rated, modular solution can be expanded depending on the energy and power requirement.
- Easily transportable, and pre-assembled battery system, to simplify the installation.

Local Technical Support

Our North America based technical support team is ready to assist you from project design through to final commissioning — ensuring smooth deployment and ongoing success.

* optional



Inverter Specifications

AC (GRID SIDE)		FP-Nano-30K-I	FP-Nano-30K-N	FP-Nano-60K-N
Rated Input Voltage	208 / 220 / 240 Vac 3P4W		480 Vac 3P4W	
Rated Current	72.2 A		36.1 A	72.2 A
Max Current Passthrough	144.4		72.2	144.4 A
Max Discharge/Charge Current	72.2 A		36.1 A	72.2 A
Rated Input Frequency	60 Hz			
Input Frequency Range	55 - 65 Hz			
Grid Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)			
THDI	≤ 3%			
INPUT - GENERATOR				
Max Output Power	26 / 27.5 / 30 kW		30 kW	60 kW
Max Input Current	72.2 A		36.1 A	72.2
Rated Input Voltage	208 / 220 / 240 Vac 3P4W		480 Vac 3P4W	
Rated Input Frequency	60 Hz			
OUTPUT - AC (BACKUP)				
Rated Output Power	26 / 27.5 / 30 kW		30 kW	60 kW
Max Apparent Output Power	1.6 times of rated power with 2s			
Backup Switch Time	< 10ms			
Rated Output Voltage	208 / 220 / 240 Vac 3P4W		480 Vac 3P4W	
Rated Frequency	60 Hz			
Rated Output Current	72.2 A		36.1 A	72.2
Max Imbalance Power Per Phase	33% rated power			
THDv (@linear load)	< 2%			
PV SIDE PARAMETERS				
Max. usable PV input power	60 kW			100 kW
Rated MPPT Voltage	600 V			
Operating MPPT voltage range (DC)	150 - 850 V			
Maximum Input Voltage (DC)	1000 V			
Start-up Voltage (DC)	180 V			
Full Load MPPT Voltage Range (DC)	500 - 850 V			600 - 850 V
Max. input current per MPPT	3 x 42 A			4 x 42 A
MPPT number/Max. input strings number	3/6			4/8
Max input power per MPPT	25 kW (600 V x 42 A)			

Battery Specifications

DC BATTERY	FP-Nano-S8-I FP-Nano-S8-O	FP-Nano-S12-I FP-Nano-S12-O
Rated Battery Capacity	40 kWh	60 kWh
Battery Type	LFP (Lithium Iron Phosphate)	
Nominal Capacity	100 Ah	
Pack Configuration	1P128S	1P192S
Rack Configuration	8	12
Nominal Energy (kWh)	40.96 kWh	61.44 kWh
Nominal Voltage	409.6Vdc	614.4Vdc
Operating Voltage Range (Vdc)	358.4 ~ 460.8 Vdc	537.6 ~ 691.2 Vdc
Max Discharge/Charge Current	100 A	

General Specifications

GENERAL SPECIFICATIONS	
Inverter Efficiency	97.80%
DC-DC Round Trip Efficiency	97.80%
Max Inverter Parallel Numbers	6
Weight with inverter (40kWh / 60kWh)	1,940 lb (880 kg) / 2,381 lb (1080 kg)
Cooling and Heating Mode	HVAC
Battery Cabinet Dimension (W x H x D) without inverter	28.93 x 87.40 x 44.29 in (735 x 2220 x 1125 mm)
Inverter Dimension (W x H x D)	22.04 x 36.61 x 12.60 in (560 x 930 x 320 mm)
Operation Altitude	8,202 ft. (2,500 m)
Operation Temperature	-4°F ~ 122°F (derating >113°F) (-20°C ~ 50°C (derating >45°C))
Operation Humidity	0 ~ 95%
Noise Level	≤ 75dB @ 3.28 ft (1 m)
Enclosure Degree of Protection	IP55 (IP20 w/ indoor option)
Anti-Corrosivity Category	C4
Fire Protection	BMS pre-alarm, Smoke sensor, temp. sensor, Aerosol, gas sensor & exhaust fan (optional)
Auxiliary Power Supply	External power supply (208-240Vac or 480Vac VL-L)
EMS (Optioani)	Adaptive Peak Shaving, Demand Response, VPP, Back-up, Microgrid, Off-Grid
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN
Certification	UL1973, UL9540A, UL9540, UL1741, FCC Part 15, IEEE 1547, UN38.3
Warranty	10 years, 70% Retention with 8000 cycles
User interface	HMI, Homeowner/Installer Application, Fleet Manangement Portal, Real-time Monitoring,