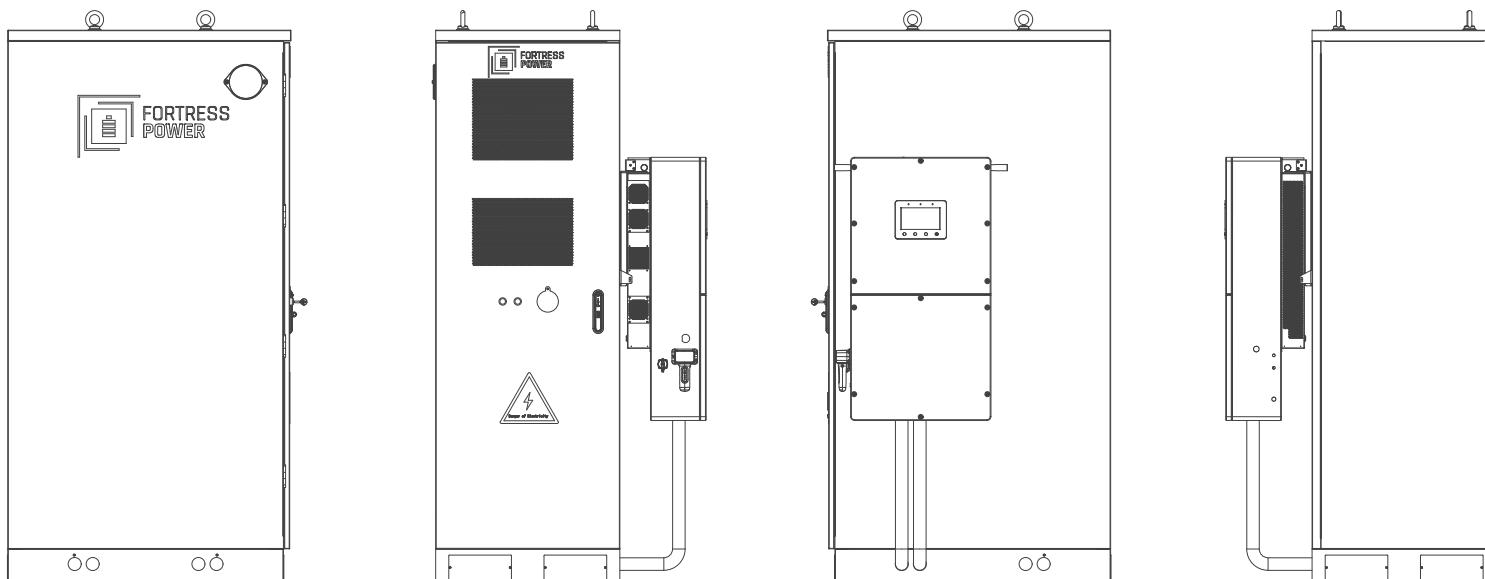


eSpire Nano Recommended Configurations

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



PRODUCT FEATURES

Turnkey Outdoor Energy Storage System

- Pre-configured BESS with inverter(s), LFP battery, BMS & intelligent climate control.
- Integrated STS for resiliency.

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:

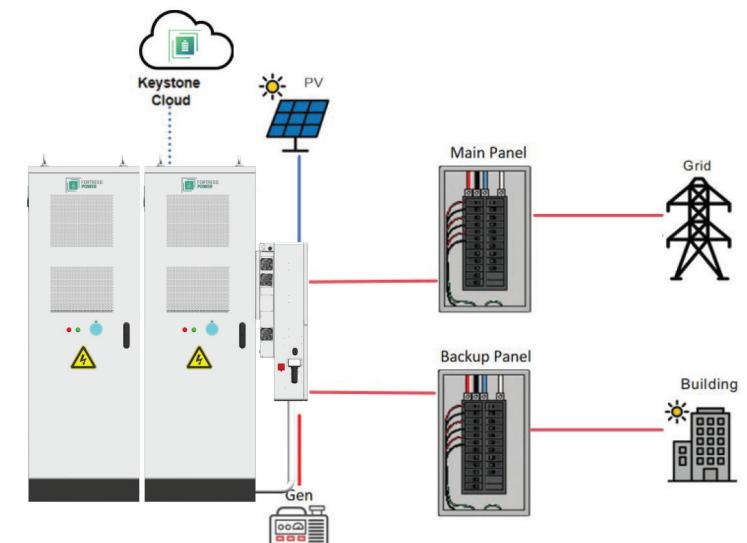
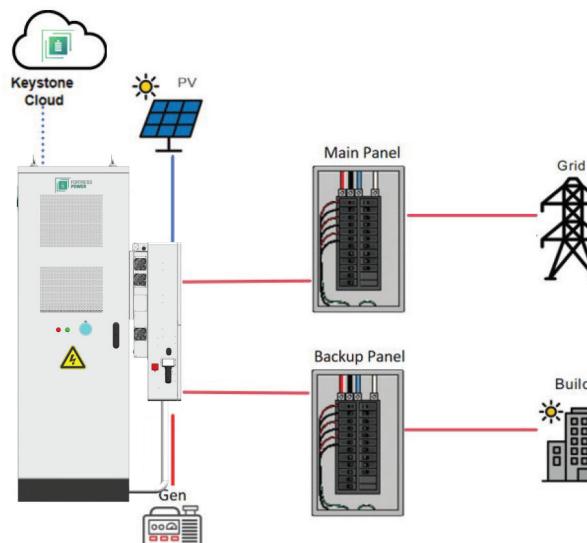
- Lower electricity costs, optimized ROI, enhanced system resiliency.
- Remote monitoring, control, and maintenance across your installation portfolio.

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.



Inverter Specifications

AC (GRID SIDE)	30kW INVERTER	30kW INVERTER	60kW INVERTER
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	40 kWh	60 kWh
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 >13°F) (-20°C - 50°C (derating >45°C))
Operation Humidity	0 - 95%
Noise Level	≤ 75dB @ 3.28 ft (1m)
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 (Optional)	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 Management Portal, Real-time Monitoring,