EnerShed™

MYERS
EMERGENCY POWER SYSTEMS

Discover the future of energy management with our cutting-edge Energy Storage System.

By choosing our innovative solution, you can significantly reduce your energy costs while simultaneously harnessing the power of renewable energy sources.

Embrace the future of sustainable energy with our best-in-class technology and take control of your energy today.

Battery
Energy
Storage
Systems

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EnerShed
Energy Storage System

A stationary energy storage system befitting the Myers Emergency Power Systems brand.

Uncompromised Capability

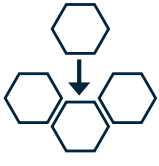
Simplicity and configurability, with EnerShed, you get both. Our 30 kW AC module enables significant sizing flexibility, allowing you to design your energy storage system to your exact needs, every time.

Highest Energy Density with the Lowest Operating Costs

The forced air cooling means you get a leading energy density that is compact and simple to maintain, with no liquid cooling or HVAC equipment to cause headaches or take up space.

Unmatched Reliability

Myers has over 60 years of experience providing emergency power systems for critical infrastructure, from emergency lighting to rail and transit. We've taken that expertise and put it into EnerShed, a stationary energy storage system for the commercial market that you can rely on.



Highly Configurable

A modular design allows for precise sizing of both power electronics and battery energy, while remaining completely scalable.

Turnkey Solutions

All units arrive to their pre-prepped pad fully assembled, factory-tested, and ready for connection.

Defense In Depth

Safety is embedded in every level throughout the system to continuously monitor, detect, and halt potential anomalies.

44 S Commerce Way, Bethlehem, PA 18017
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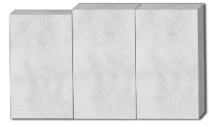
EnerShed SM

Energy Storage System

Rated AC Output Power: 60 kVA - 150 kVA
Capacity: 260 kWH - 430 kWH

EnerShed SM
150 kVA/500 kWh
= 150 kWh/m2



Competitor A
150 kW / 372 kWh
= 79.5 kWh/m2

Competitor B
125 kW / 279.5 kWh
= 99.3 kWh/m2

General Specifications

Model	EnerShed 60		EnerShed 90		EnerShed 120		EnerShed 150	
Rated AC Output Power	60 kVA		90 kVA		120 kVA		150 kVA	
Capacity*	100 kWh	200 kWh	150 kWh	300 kWh	200 kWh	400 kWh	250 kWh	500 kWh
Rated AC Current	72.5 A (PF=1)		108.8A (PF=1)		145.0 A (PF=1)		181.3 A (PF=1)	
Max Continuous AC Current	76.0 A (PF=1)		114.0 A (PF=1)		152.0 A (PF=1)		190 A (PF=1)	
Cycle Life	80% SoH @ 4000 cycles, 25C							
System Weight	2,295 kg (5,049 lbs)	2,905 kg (6,391 lbs)	2,625 kg (5,797 lbs)	3,670 kg (8,074 lbs)	2,985 kg (6,567 lbs)	4,435 kg (9,757 lbs)	3,345 kg (7,374 lbs)	5,200 kg (11,440 lbs)
Regulatory	UL9540, UL9540A, UL1741 SA/SB, IEEE 1547-2020, UL1642, UL1973							

Operating and Mechanical Data

Dimensions (H x D x W)	114” x 87” x 59”
Enclosure	Nema 3R
Corrosion Category IEC 61701	C5
Cooling	Forced Air
Operating Temperature Range	-30 C - 60 C
Storage Temperature Range	5 C to 40 C
Maximum Permissible Relative Humidity	95%
Rated Altitude	3000 ft
Noise Emission	65 dB(A)
FCC	Class A

Electrical Data

Nominal AC voltage / Line Connection	480 Vac / 3-phase Wye
Grid Frequency	60 Hz
Harmonics (THD)	<5%
PF at rated power / displacement	1 / 0.8 Leading - 0.8 Lagging
Communication	SunSpec over ModBus TCP/IP

*Nominal usable energy at AC terminals, Day 1. Consult with Myers for additional power and capacity sizes not shown here.

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EnerShed MD

Energy Storage System

Rated AC Output Power: 270 kVA
Capacity: 515 kWH - 775 kWH

EnerShed MD
270 kVA/900 kWh
= 108 kWh/m2

Competitor A
250 kW / 1000 kWh
= 67 kWh/m2

Competitor B
250 kW / 930 kWh
= 95.4 kWh/m2

General Specifications

Model	EnerShed 180		EnerShed 210		EnerShed 240		EnerShed 270	
Rated AC Output Power	180 kVA		210 kVA		240 kVA		270 kVA	
Capacity*	300 kWh	600 kWh	350 kWh	700 kWh	400 kWh	800 kWh	450 kWh	900 kWh
Rated AC Current	217.5 A (PF=1)		253.8 A (PF=1)		290.0 A (PF=1)		326.3 A (PF=1)	
Max Continuous AC Current	228.0 A (PF=1)		266.0 A (PF=1)		304.0 A (PF=1)		342.0 A (PF=1)	
Cycle Life	80% SoH @ 4000 cycles, 25C							
System Weight	6,525 kg (14,387 lbs)	8,955 kg (19,745 lbs)	6,885 kg (15,181 lbs)	9,270 kg (21,432 lbs)	7,245 kg (15,975 lbs)	10,485 kg (23,119 lbs)	7,605 kg (16,769 lbs)	11,250 kg (24,806 lbs)
Regulatory	UL9540, UL9540A, UL1741 SA/SB, IEEE 1547-2020, UL1642, UL1973							

Operating and Mechanical Data

Dimensions (H x D x W)	79” x 129” x 100”
Enclosure	Nema 3R
Corrosion Category IEC 61701	C5
Cooling	Forced Air
Operating Temperature Range	-30 C - 60 C
Storage Temperature Range	5 C to 40 C
Maximum Permissible Relative Humidity	95%
Rated Altitude	3000 ft
Noise Emission	65 dB(A)
FCC	Class A

Electrical Data

Nominal AC voltage / Line Connection	480 Vac / 3-phase Wye
Grid Frequency	60 Hz
Harmonics (THD)	<5%
PF at rated power / displacement	1 / 0.8 Leading - 0.8 Lagging
Communication	SunSpec over ModBus TCP/IP

*Nominal usable energy at AC terminals, Day 1. Consult with Myers for additional power and capacity sizes not shown here.

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EnerShed LG

Energy Storage System

Rated AC Output Power: 570 kVA - 1170 kVA
Capacity: 1,115 kWH - 4,770 kWH

EnerShed LG
570 kVA/1900 kWh
= 228 kWh/m2

Competitor A
250 kW / 1000 kWh
= 67 kWh/m2

Competitor B
1.5 kW / 3720 kWh
= 194 kWh/m2

General Specifications

Model	EnerShed 330		EnerShed 390		EnerShed 450		EnerShed 510		EnerShed 570	
Rated AC Output Power	330 kVA		390 kVA		450 kVA		510 kVA		570 kVA	
Capacity*	550 kWh	1,100 kWh	650 kWh	1,300 kWh	750 kWh	1,500 kWh	850 kWh	1,700 kWh	950 kWh	1,900 kWh
Rated AC Current	398.8 A (PF=1)		471.3 A (PF=1)		543.8 A (PF=1)		616.3 A (PF=1)		688.8 A (PF=1)	
Max Cont. AC Current	418.0 A (PF=1)		494.0 A (PF=1)		570.0 A (PF=1)		646.0 A (PF=1)		722.0 A (PF=1)	
Cycle Life	80% SoH @ 4000 cycles, 25C									
System Weight	18,500 kg (40,793 lbs)	22,955 kg (50,616 lbs)	19,220 kg (42,380 lbs)	24,485 kg (53,989 lbs)	19,940 kg (43,968 lbs)	26,015 kg (57,363 lbs)	20,660 kg (45,555 lbs)	27,545 kg (60,737 lbs)	21,380 kg (47,143 lbs)	29,075 kg (64,110 lbs)
Regulatory	UL9540, UL9540A, UL1741 SA/SB, IEEE 1547-2020, UL1642, UL1973									

Operating and Mechanical Data

Enclosure	Nema 3R
Corrosion Category IEC 61701	C5
Cooling	Forced Air
Operating Temperature Range	-30 C - 60 C
Storage Temperature Range	5 C to 40 C
Maximum Permissible Relative Humidity	95%
Rated Altitude	3000 ft
Noise Emission	65 dB(A)
FCC	Class A

Electrical Data

Nominal AC voltage / Line Connection	480 Vac / 3-phase Wye
Grid Frequency	60 Hz
Harmonics (THD)	<5%
PF at rated power / displacement	1 / 0.8 Leading - 0.8 Lagging
Communication	SunSpec over ModBus TCP/IP

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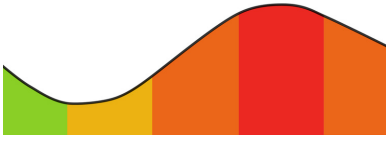
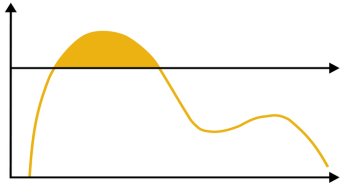
Battery Energy Storage Systems (BESS) are instrumental for enhancing Energy Resiliency, acting as a reliable backup power source during grid outages, natural disasters, and security threats.

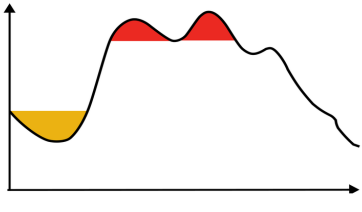
BESS supports microgrids, enabling uninterrupted power supply in isolated regions, and helps manage peak demand to prevent blackouts. It also facilitates the integration of intermittent renewable energy sources, maintaining consistent power output. BESS's versatility makes it indispensable for ensuring continuous energy availability, reducing downtime, and improving overall resiliency in various critical applications. Other use cases include:



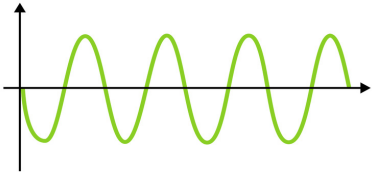
ENERGY ARBITRAGE exploits electricity price variations by buying low during off-peak times and selling or using it when prices rise. Beneficial for energy storage systems, like batteries, it stores excess energy during low-demand periods and releases it when prices peak. Profitability depends on price differentials and storage efficiency. In regions with volatile pricing, it promotes sustainability and efficient energy use.



ENERGY DEMAND RESPONSE is a strategy in the energy industry that manages electricity demand during peak periods, incentivizing users to reduce consumption for compensation. Typically run by utilities or grid operators, these programs offer incentives like bill reductions or rebates. They benefit utilities by reducing costly peak generation, minimizing blackout risks, and fostering efficient energy use.



PEAK SHAVING reduces grid energy consumption during peak demand by storing energy during low-demand times and using it later. It benefits utilities and large users by lowering peak electricity costs. Energy storage systems, demand response programs, and energy efficiency methods all play a role in peak shaving.



FREQUENCY REGULATION maintains grid stability by adjusting Battery Energy Storage System (BESS) power output in response to frequency fluctuations caused by supply-demand variations. BESS equipped with advanced controls rapidly charge or discharge energy, stabilizing grid frequency for reliable, efficient operation.

Fire Suppression System

7 Layers of Safety

PREVENTION

Design:
Low cell count and LFP prismatic cells ensure safe voltage levels and compliance with UL60950.

Galvanic Isolation:
Power electronics isolate cell groups, preventing hazards from spreading.

Individual Isolation:
Power electronics monitor current, voltage, and temperature every 30 microseconds for rapid shutdown.

Thermal Management:
Cells are thermally separated and individually cooled to prevent overheating.

CONTAINMENT

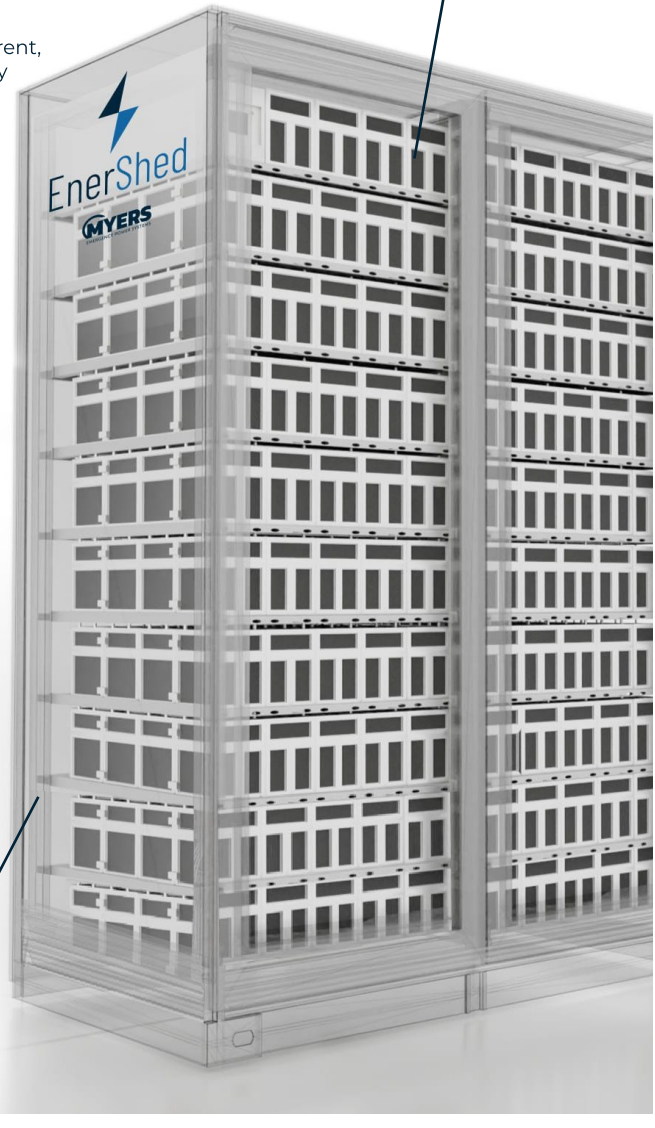
Independent 1+1 Redundant Monitoring:
Controls shut off power, discharges energy, and triggers emergency stop in case of temperature anomalies.

Fire Suppression:
Redundant system complies with industry standards, suppresses fires and eliminates oxygen.

Dry Pipe System:
Preventative measure triggered by fire department or internal heat breach to prevent fire propagation.

4 LAYERS OF PREVENTION

3 LAYERS OF CONTAINMENT



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Smart · Clean · Energy

SMALLEST FOOTPRINT IN ITS CLASS

60kW to ∞

Multi-Family Residential · Commercial and Industrial Facilities