



Complete power for your home or business when you need it

With extended discharge capability spanning 12+ hours, EMWALL is uniquely capable of taking homes and businesses off-grid. Whether your priority is seamless blackout protection, slashed energy bills via time-of-use savings, or complete off-grid autonomy, EMWALL delivers.

EMWALL integrates effortlessly with solar panels, the grid, or a generator, automatically switching between them so you are never without power, no matter the situation. And with whisper-quiet operation, sleek wall-mount design, and decades-long durability, this is energy storage that lives with you and provides peace of mind.

AVAILABLE CONFIGURATIONS

8kWh • 16kWh

APPLICATIONS



Homes



Businesses

Backed by a 10-year comprehensive warranty, EMWALL supports up to four full cycles per day—delivering an astonishing ~233 MWh of aggregate throughput on the 16kWh model (~116 MWh on the 8 kWh) with ≥99% retained capacity.

Depth of Discharge

100%

Round Trip Efficiency

>97%

Operating Temperature

-22°F to 140°F

No HVAC needed

Cycle Life

50,000 Module Cycles

Up to 4x per day

Degradation

≥ 95% capacity at EOL

Monitoring

Controlled via mobile app

Connection

Parallel

Safety

No thermal runaway

Zero propagation

Design

Wall or Ground mount



AC2DC STORAGE
Electrostatic Supercapacitors

LEADING THE CHARGE IN ENERGY
STORAGE SOLUTIONS

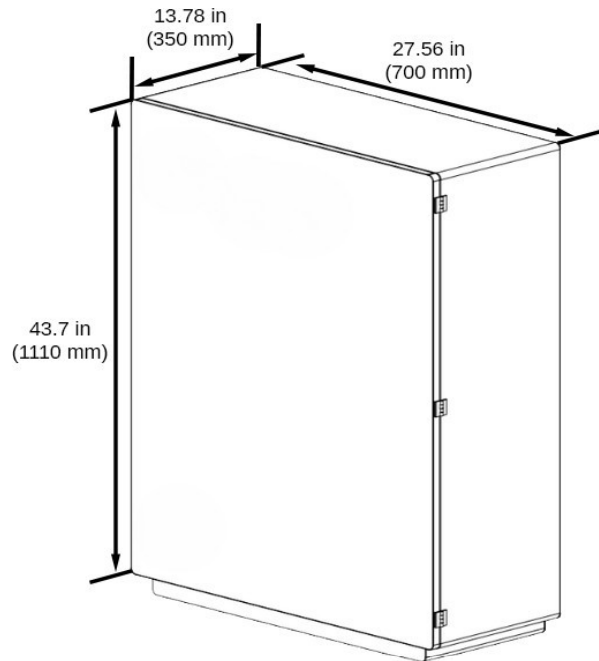
EMWALL

Feature	Specification
Energy Capacity (DC)	8 kWh 16 kWh
Depth of Discharge	100%
Cell Life	500,000+ cycles
Efficiency	97.6%
Chemistry	Solid-State Graphene
Nominal Voltage	48 V DC
Internal Resistance	<4 mΩ
Charging Curve	3-stage: CC/CP/VP (Self-Adaptive)
Enclosure Material	Fiberglass, UV-resistant
Enclosure Protections	IP65 IK10
Dimensions (in)	27.56 × 43.70 × 13.78
Weight (lbs)	8 kWh: 170 lbs (60 lb cabinet + 110 lb module) 16 kWh: 280 lbs (60 lb cabinet + 220 lb modules)

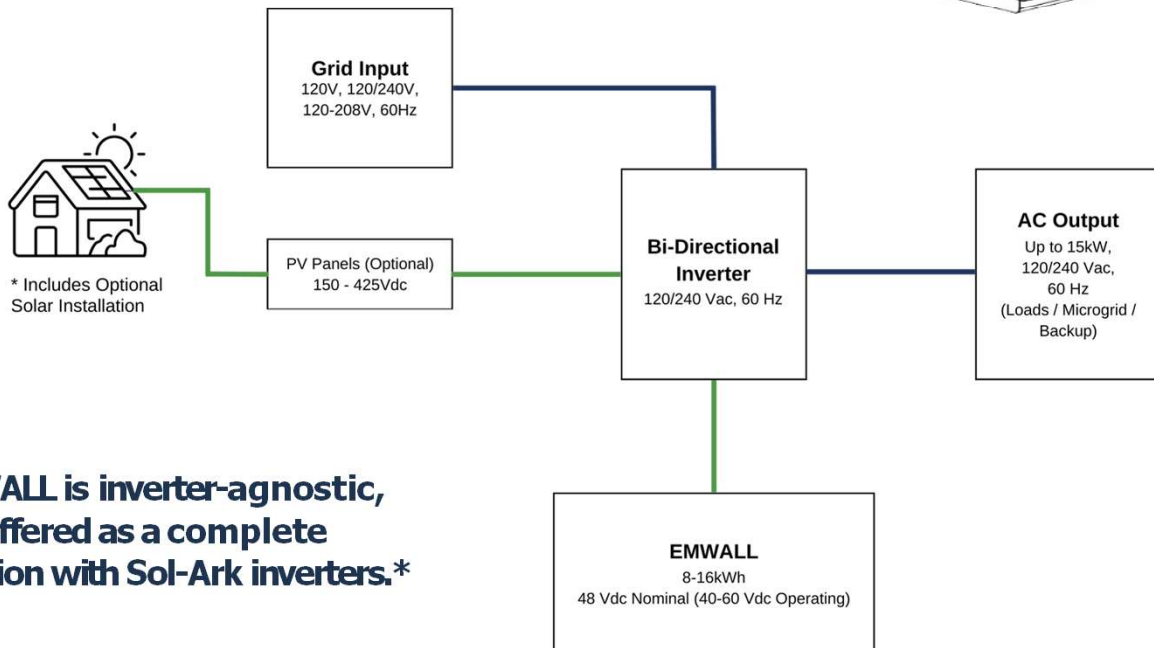
* Inverter specifications are separate

Environmental Specification	Value
Operating Humidity	Non-Condensing
Warehousing	Can be stored at any SOC without affecting cycle life

Dimensions



Sample Microgrid Configuration



EMWALL is inverter-agnostic, but offered as a complete solution with Sol-Ark inverters.*



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