

MICRO-GRIDS

POWERSHED

PS46

Extreme-Weather Outdoor Battery Cabinet
46 kWh | 18 kW AC



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Micro-Grids builds the PowerShed, engineered for whole-home backup power and solar applications. It integrates 46 kWh of lithium iron phosphate battery storage and an 18 kW hybrid inverter within an insulated, fire-resistant outdoor enclosure built for extreme hot and cold climates.

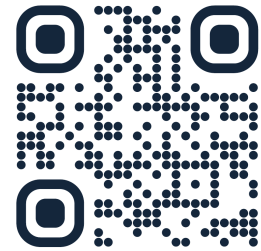
As a freestanding outdoor structure, the PowerShed delivers high-capacity backup power. An integral heater keeps the batteries in their charging range in sub-zero weather, and the enclosure simplifies installation while supporting code compliance.



Energy Capacity:	46.08 kWh
Continuous Power:	18 kW AC
AC Output:	120/240 Vac, 60 Hz, split phase, 75 A continuous
Grid Pass-Through:	200 A

Battery Chemistry:	Lithium Iron Phosphate (LFP)
Battery Modules:	9 × Pytes V5
Battery Bus:	51.2 Vdc nominal (47.5 to 57.6 Vdc)
Hybrid Inverter:	Sol-Ark Limitless 18K-2P-LV
Inverter Inputs:	Grid, solar and generator

Enclosure:	Type 3R outdoor, insulated, powder-coated steel frame
Operating Ambient:	-20 °F to 115 °F (-29 °C to 46 °C)
Thermal Management:	Integral heater and cooling fans, thermostatically controlled; passive ventilation
Dimensions:	60 in W × 49 in D × 89 in H
Weight:	Approximately 3,000 lb, installed
UL 9540 Certification:	Third Edition listing in progress with Intertek (ETL)



www.micro-grids.com

