



MICRO-GRIDS

POWERSHED PS-46

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 battery storage and an 18 kW hybrid inverter within a thermally insulated, fire-resistant outdoor enclosure built for extreme hot and cold climates.

As a freestanding outdoor structure, Powershed delivers high-capacity backup power. The enclosure enhances safety and simplifies installation while supporting code compliance.



Battery Modules:	9 x Pytes V5, 5.12 kWh each (UL 1973)
Nominal Energy Storage:	46 kWh
Battery Chemistry:	Lithium Iron Phosphate (LFP)
Heated Battery Modules:	Integrated within each Pytes V5 module
Hybrid Inverter:	Sol-Ark 18K-2P (UL 1741 SA)
Continuous AC Output:	18 kW
Surge Output (10 sec):	36 kW
Maximum PV Input:	32 kW DC
Nominal AC Voltage:	120/240 V or 208 V
Nominal DC Voltage:	48 VDC

Integrated DC Bus Bar:	900 A
Integrated Cooling System:	200 W Thermoelectric Cooler
Insulation:	3.5" Rockwool Insulation
Dimensions:	60" W × 48" D × 85" H
Patent Status:	Pending
UL 9540 System Certification:	Pending



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