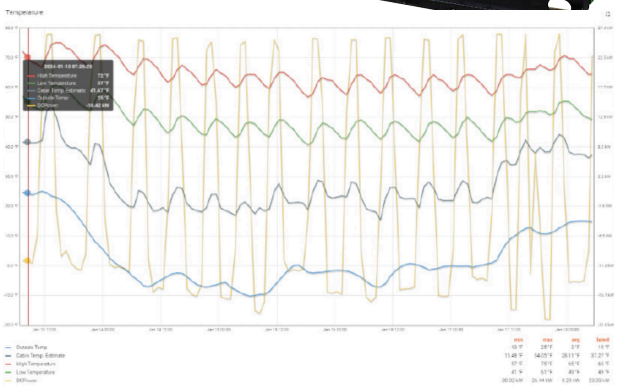
Engineered for Peak Performance *In Cold Weather*

PERFORMANCE RECOMMENDATIONS

With a pack design that maintains its own heat during both charge and discharge cycles, the RPS50 pack ensures consistent energy delivery, even in sub-zero temperatures. Its operational resilience allows it to maintain ideal temperatures throughout cold weather conditions, providing reliable power for up to 24 hours after an initial warm-up. Designed for harsh environments, the SBR30-150 ensures your energy storage needs are met, no matter how cold it gets.



This graph illustrates the performance of the Wisconsin Microgrid during January 2024, showcasing the system's resilience in extreme cold. Despite outside temperatures plummeting to -10°F (-23.3°C), the battery temperatures remained stable, holding between 40°F (4.44°C) and 60°F (15.56°C).

FOR OPTIMAL PERFORMANCE IN LOW-TEMPERATURE ENVIRONMENTS

KEY FEATURES FOR COLD WEATHER OPERATIONS

- **Heat retention capability:** The RPS50 pack generates heat during charge and discharge cycles, similar to a cell phone.
- **Operational resilience:** Maintains temperature while running in cold conditions.
- **Extended cold weather operation:** Can function for up to 24 hours in sub-zero temperatures after initial warm-up.

OPERATIONAL GUIDELINES

- **Warm-up procedure:** For temperatures below 0°F (-20°C), bring the unit indoors to warm up before starting operations.
- **Temperature management:** Cell temperature inside the battery pack remains warmer than ambient temperature, ensuring better cold weather performance.
- **Charging precautions:** Check ambient and internal battery pack temperature before charging. If below 32°F (0°C), discharge for 30 minutes to warm up the pack.

OUTDOOR STORAGE AND MAINTENANCE

- **Keep it actively charging or discharging** to maintain proper operating temperature. This requires minimal power—e.g., at 14°F (-10°C), a 1.5 kW charge or discharge keeps the fleet rent-ready. Turn the fans off on the RPS150 to keep the generated heat internal to the cabin.
- **Optimal storage:** Keep at 70% State of Charge (SOC) to minimize degradation.
- **Warm up the battery pack:** Allows faster charging to prepare ESS for shipment to customer.

FOR MORE INFORMATION ABOUT FAIL-SAFE ENERGY STORAGE
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