



# RPS50

ENERGY STORAGE SOLUTIONS

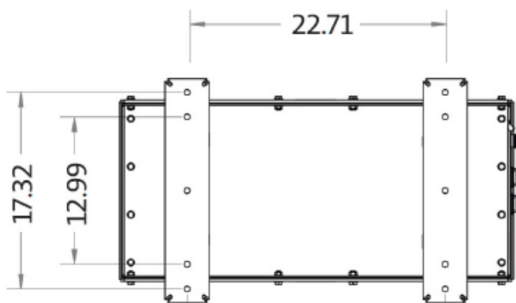
Failsafe point-of-use storage for occupied buildings or outdoors

## KEY BENEFITS

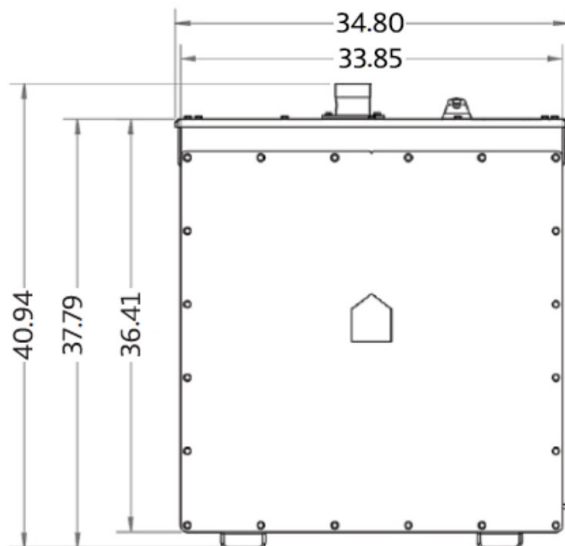
- Installed capacity: 245 Ah
- Installed energy: 48.9 kWh
- Ingress rating IP56 (pending)
- Integrated thermal event anti-propagation technology and optional thermal event detection system
- Pack and individual cell safety vents
- Integrated Battery Management System (BMS) with CAN 2.0b communication
- Can be connected in series for higher voltage/power and additional systems can be added to work in parallel for additional capacity
- Zero noise

## PHYSICAL PARAMETERS

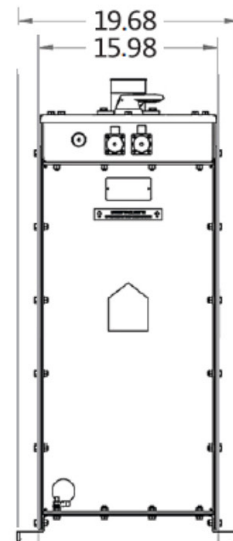
- 500 kg (1,102 lbs)
- A572 Grade 50 Carbon Steel



**BOTTOM**



**SIDE**



**FRONT**

\*Dimensions in inches

## DISCHARGE PARAMETERS <sup>1</sup>

- Minimum to maximum operating temperature: -10°C to 45°C (14°F to 113°F)
- Max continuous power 10 kW

## CYCLE LIFE <sup>3</sup>

- Maximum charge voltage: 221.4 V
- Minimum discharge voltage: 167.4 V
- Usable capacity: 43.41 kWh
- Energy throughput: 143 MWh
- Cycle life: 4,000 cycles

## CHARGE PARAMETERS <sup>2</sup>

- Minimum to maximum operating temperature: -10°C to 45°C (14°F to 113°F)
- Max continuous power 10 kW

## CERTIFICATIONS

- UN 38.3 (cell/module)
- UL 1642 (cell)
- UL 1973 (pack tested but not listed)
- UL 9540A (cell/module/pack tested)
- UL 9540 (field evaluated at full ESS level)

## RECYCLING PARTNER

- Li-Cycle<sup>®</sup> recovers 95% of the valuable elements in lithium-ion batteries.

<sup>1</sup> Operating temperature range mirrors battery cell specifications. The Battery Management System (BMS) is programmed to manage the pack utilization rate to control the internal pack thermal conditions and prevent operation outside of pack interior temperature limits, which can be tailored for different applications/installations. The BMS communicates applicable operating conditions continuously via CAN bus to the inverter and/or system controller.

<sup>2</sup> Optimal minimum to maximum charge operating temperature: 0°C to 45°C. For charging below 0°C maximum charge rate: 4.6kW. Additionally, for charging below -10°C, maximum charge voltage: 210.6V.

<sup>3</sup> Cycle life can be optimized for individual applications and operating conditions (depth of discharge, duty cycle, temperature, charge/discharge rate).

## FOR MORE INFORMATION

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