Battery Energy Storage System for Outdoor Installations



KEY BENEFITS

- Optimize energy use by deploying stored energy during high-priced peak demand periods and recharging during off-peak times, reducing overall energy costs.
- RPS1200 offers a low-maintenance, customizable energy storage solution for regular operations.
- RPS1200 seamlessly integrates with various green energy sources like PV, wind, and generators for enhanced sustainability.

SAFETY

- All Viridi battery packs equipped with passive Fail-Safe thermal management and anti-propagation technology to prevent Li-Ion battery fire.
- Fail-Safe technology allows for unique permitting opportunities including BESS in and around occupied spaces and critical equipment.
- RPS1200 includes integrated HVAC and gasseous fire suppression system.

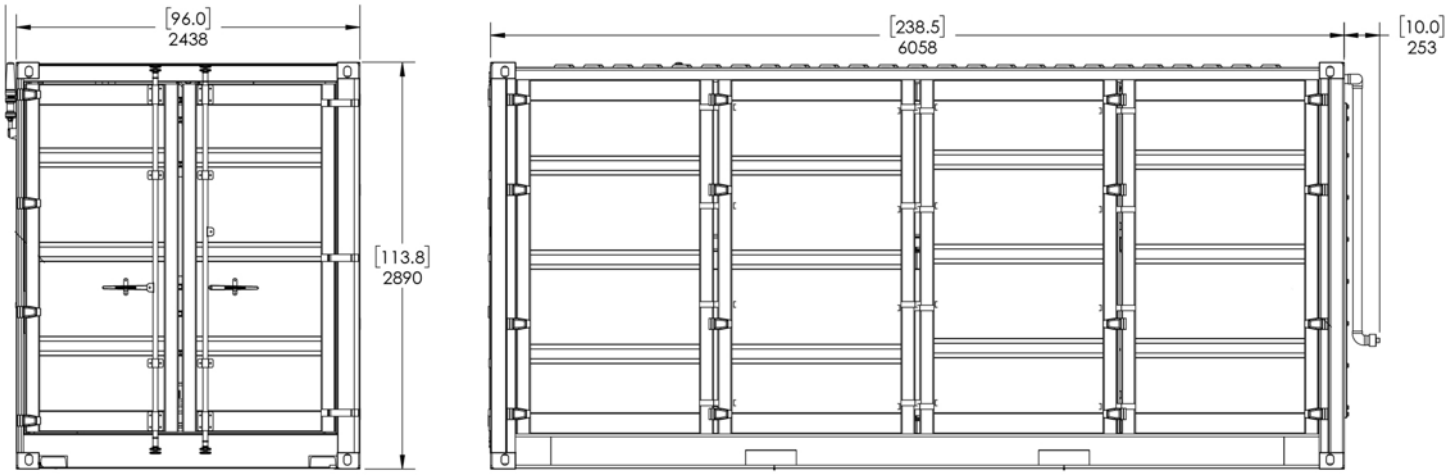
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RPS1200

CONTAINERIZED
ENERGY STORAGE SYSTEM

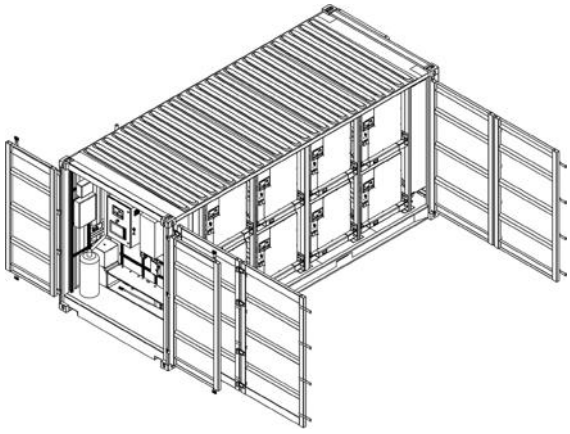
PHYSICAL PARAMETERS

- Length..... 238.5" (in)
- Width ..... 96" (in)
- Height ..... 113.8" (in)
- Weight .... approx 42,000 lbs



VPP OPERATION

- Viridi BEMS AI-controlled Energy Management Platform optimizes facility energy usage to cut costs and maximize decarbonization efforts (optional add-on consisting of external hardware)



CERTIFICATIONS

- UN38.3 (cell/module)
- UN1642/2580 (cell) UL Recognized Component
- UL1973 (cell) SGS Listed
- UL1973 (pack) cTÜVus Listed
- UL9540A (cell/module/pack) tested by multiple NRTLs
- UL1741 / IEEE1547 (inverter) TÜVSÜD listed

PERFORMANCE

480V 3-phase Max Continuous Power[1]

- 240kW Charge
- 240kW Discharge

Battery System

- 1,173.6kWh DC-Nameplate
- 998.4 kWh DC-Usable (BOL)
- Approx 4,000 Cycles to 80% Beginning of Life (BOL) Usable Capacity[2]

[1] 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. ***Note:*** Charging and discharging is unconstrained within operating temperature 0°C to 45°C. Outside of that temperature range, BMS derates maximum charging and discharging.

[2] 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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