

Viridi RPS150

POINT-OF-USE ENERGY STORAGE SYSTEM

Trailer Mounted Battery Energy Storage System

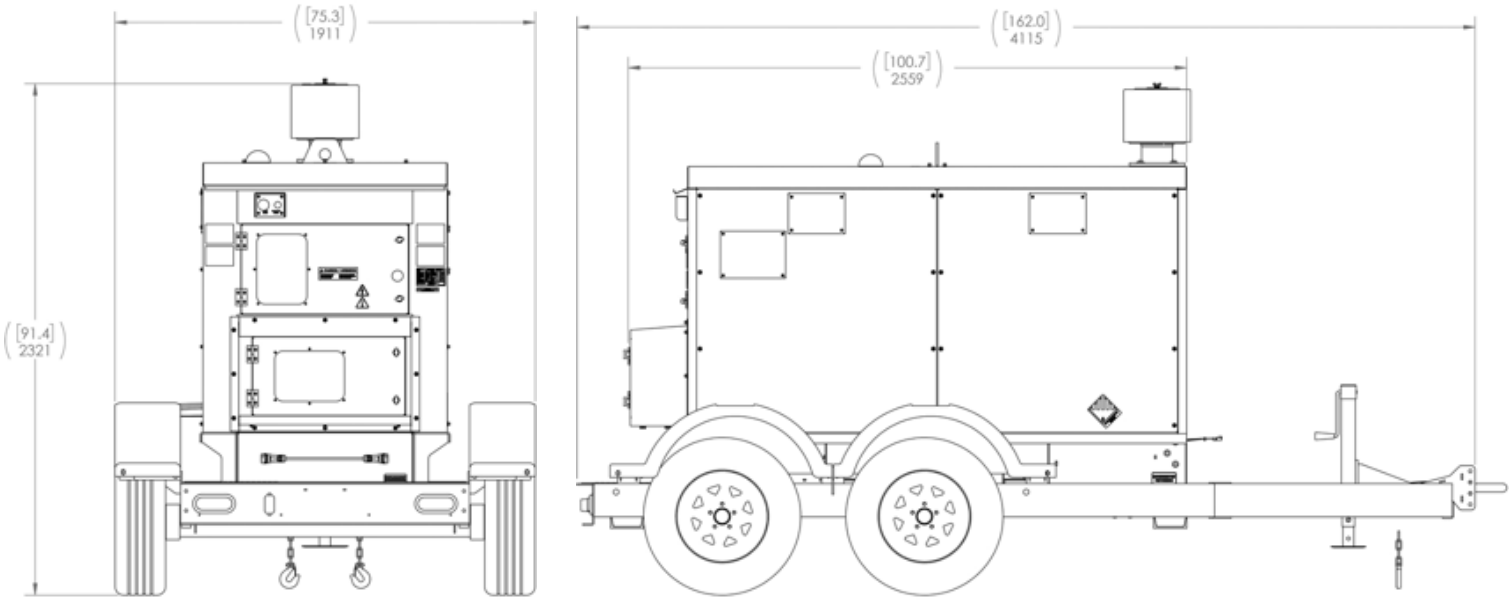
KEY BENEFITS

- Viridi RPS50 packs contain Fail-Safe Anti-Propagation Technology to prevent Li-Ion Fire
- Zero Emissions
- On-Grid Charging and Discharging
- Off-Grid Discharging
- Generator Hybridization & Runtime Optimization
- Microgrid Forming for highly scalable and autonomous power delivery

CERTIFICATIONS

- UN 38.3 (cell, module)
- UL 1642 (cell) UL Recognized Component
- UL 1741 (PWS2-30P-NA inverter) cTÜV SÜDus Listed
- IEEE 1547 (PWS2-30P-NA inverter) cTÜV SÜDus
- UL 1973 (RPS50 pack) cTÜVus Listed
- UL 2580 (cell) UL Recognized Component
- UL 9540A (cell/module/pack tested)
- UL 9540 (RPS150 BESS) cETLus Listed

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PHYSICAL PARAMETERS

- RPS150 Length (excl trailer) . . . . . 100 .7 in
- RPS150 Width (excl trailer) . . . . . 44 .8 in
- RPS150 Height (excl trailer) . . . . . 65 .4 in
- RPS150 Skid Mounted Unit Weight . . . . 5,750 lbs
- Trailer Mounted Weight . . . . . 7,000 lbs

PERFORMANCE

Max Continuous Power

- 30kW Charge @ 480VAC 3Φ / 208VAC 3Φ
- 30kW Discharge @ 480VAC 3Φ / 208VAC 3Φ

Operating Temperature Range[1]

- -14°F to 113°F / -10°C to 45°C

Battery System

- 146.7kWh DC-Nameplate
- 124.8kWh DC-Usable BOL
- Approx 4,000 cycles to 80% of Beginning-of-Life (BOL) DC-Usable kWh Rating[2]

ELECTRICAL FEATURES

- Up to 150A pass-through capability
- 2 X AC Cam-Locks SWITCHABLE
  - 208VAC 3Φ, 80A or
  - 480VAC 3Φ, 40A
- 1 X NEMA 14-50R
  - 208VAC 1Φ, 50A
- 2 X CS Twist Lock Receptacles
  - 208VAC 1Φ, 50A
- 2 X NEMA 5-20R
  - 120VAC 1Φ, 20A

MECHANICAL FEATURES

- RPS150 is a skid-mounted unit that may optionally be delivered mounted to a 4-wheel towable trailer
- Side-Access Fork-Lift
- Single Top Lift Point

PARALLELING OPERATION

- Generator Hybrid Mode to optimize runtime and minimize fuel consumption of any generator
- Microgrid Mode to parallel multiple RPS150 with DEIF controlled paralleling generators
- Total paralleling capability of up to 16 RPS150 for 480kW of BESS capacity

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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