Battery Energy Storage System



Viridi RPS65-200

POINT-OF-USE ENERGY STORAGE SOLUTIONS

KEY BENEFITS

- Viridi Fail-Safe Anti-Propagation Technology to prevent Li-Ion Fire
- Zero emissions
- On-Grid Charging
- Off-Grid Discharging
- On-Grid Discharging
- Generator Hybridization Operation
- Micro-Grid Forming & Participation
- Minimal Noise

DISCHARGE PARAMETERS

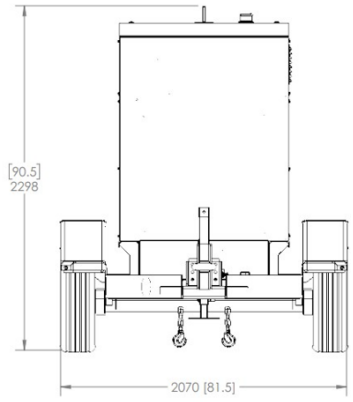
- Minimum to maximum operating temperature: -10°C to 45°C (14°F to 113°F)[1]
- Maximum continuous power:
  - 65 kW at 480VAC 3Φ / 208VAC 3Φ
  - 30 kW at 240VAC 1Φ
- Maximum Peak Power:
  - 100 kW at 480VAC 3Φ for 5 minutes

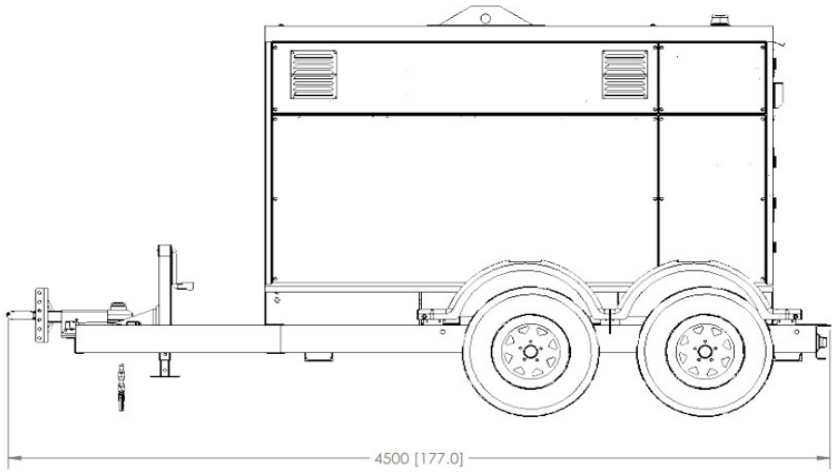
CHARGE PARAMETERS

- Minimum to maximum operating temperature: -10°C to 45°C (14°F to 113°F)[1]
- Maximum continuous power:
  - 40 kW at 480VAC 3Φ / 208VAC 3Φ
  - 9.6kW at 240VAC 1Φ

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PHYSICAL PARAMETERS

- RPS65-200 Length:
  - Excluding trailer: 108.78 in.
  - Including trailer: 177 in.
- RPS65-200 Width:
  - Excluding trailer: 44.88 in.
  - Including trailer: 81.5 in.
- RPS65-200 Height
  - Excluding trailer: 74.5 in.
  - Including trailer: 90.5 in.
- Skid Mounted Unit Weight: 7,250 lbs.
- Trailer Mounted Weight: ≤10,000 lbs.

STORAGE

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

ELECTRICAL FEATURES

- 2X Aux CS Twist Lock Receptacles
  - 1 Phase-240VAC, 50A
- 2X Aux NEMA 5-20R
  - 1 Phase-120VAC, 20A
- 2 X AC Cam-Locks Switchable
  - 3 Phase-208VAC, 400A or
    3 Phase-480VAC, 400A
- 1x CS Twist Lock Plug (Charging Outlet)
  - 1 Phase-240VAC, 50A

PARALLELING OPERATION

- Parallel with other RPS65-200 units
- Parallel with other “DEIF” controlled paralleling generators
- Total paralleling capability of up to 16 systems for 1.04MWAC and 3.2MWh nominal

MECHANICAL FEATURES

- Skid-Based Design
  Compatible Towable Trailers
- Side-Access Fork-Lift Pockets
- Single-Top Lift Point
- Full Custom Enclosure
  45 in. x 75 in. x 109 in

CERTIFICATIONS

- UN 38.3 (cell, module)
- UL 1642 (cell) UL Recognized Component
- UL 2580 (cell) UL Recognized Component
- UL 1741 (PWS1-135M-NA inverter) cTÜV SÜDus Listed
- IEEE 1547 (PWS1-135M-NA inverter) cTÜV SÜDus Listed
- UL 1973 (RPS50X pack) cTÜVus Listed
- UL 9540 (BESS) cTÜVus Listed

[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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