



Salt Vault 480VDC High Power

Sodium Ion Battery Backup

Safer, scalable energy storage

Built for High Voltage & High Power

- Data Centers
- BESS and Grid Storage
- Commercial and Industrial ESS
- Renewable Energy Integration
- Microgrids and Backup Power

10,000

Cycles

73kWh

Energy

333kW

Power

480VDC

Voltage

-10-40°C

Op. Temp



WHY SODIUM ION

The battery chemistry the world has been waiting for is **finally deployable.**

Sodium-ion has promised safer, cost-effective, longer-lasting power. The problem was never the chemistry, it was integrating it. Proper Voltage's bOS unlocks sodium-ion for real-world critical infrastructure

Salt Vault 480VDC Cabinet

SYSTEM SPECIFICATION

[FULL RACK EXCEPT WHERE NOTED]

| | |
|--------------------------------|---|
| CHEMISTRY | UNIGRID 70Ah Na-Ion |
| VOLTAGE | 522VDC (Min: 360V, Max: 612V) |
| CAPACITY | 73.08 kWh |
| DISCHARGE CURRENT | 350A (Half Rack) 700A (Full Rack) |
| CHARGE CURRENT | 140A |
| RACK HEIGHT | 48U |
| DIMENSIONS | 36 × 38 × 90.5 in (LWH) |
| | 914 mm × 965 mm × 2299 mm |
| WEIGHT | 1600 kg (3,527 lbs) |
| CYCLE LIFE | 10k Cycles @ standard charge/discharge currents |
| COOLING METHOD | Air Cooled |
| COMMUNICATION | Modbus TCP IP, Modbus RTU, USB, Bluetooth, CAN |
| OPTIMAL OPERATING TEMPERATURE | 23 ±5 °C |
| CHARGE TEMPERATURE RANGE | 0 to 40 °C |
| DISCHARGE TEMPERATURE RANGE | -20 to 40 °C |
| STORAGE TEMPERATURE RANGE | -40 to 60 °C |
| HUMIDITY (OPERATING & STORAGE) | 5 to 95% (non-condensing) |
| CERTIFICATIONS PROVIDED | UL9540, UL9540A, UL1973 |
| | UN38.3 |





Salt Vault 480VDC Cabinet

RUN TIME VS LOAD

| LOAD | QTY OF CABINETS IN PARALLEL | | | | | | | | | |
|-------|-----------------------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| KW | .5 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 50 | 40 min | 1 hr 28 min | >2 hr | >2 hr | >2 hr | >2 hr | >2 hr | >2 hr | >2 hr | >2 hr |
| 100 | 19 min | 38 min | 1 hr 3 min | 1 hr 16 min | 1 hr 54 min | >2 hr | >2 hr | >2 hr | >2 hr | >2 hr |
| 125 | 14 min | 30 min | 49 min | 1 hr 1 min | 1 hr 31 min | >2 hr | >2 hr | >2 hr | >2 hr | >2 hr |
| 150 | 12 min | 25 min | 40 min | 50 min | 1 hr 16 min | 1 hr 41 min | >2 hr | >2 hr | >2 hr | >2 hr |
| 200 | - | 19 min | 30 min | 38 min | 57 min | 1 hr 16 min | 1 hr 35 min | 1 hr 54 min | >2 hr | >2 hr |
| 300 | - | 12 min | 19 min | 25 min | 38 min | 50 min | 1 hr 3 min | 1 hr 16 min | 1 hr 41 min | >2 hr |
| 500 | - | - | 8 min | 15 min | 23 min | 30 min | 38 min | 45 min | 1 hr 1 min | 1 hr 16 min |
| 750 | - | - | - | - | 15 min | 20 min | 25 min | 30 min | 40 min | 50 min |
| 900 | - | - | - | - | 12 min | 17 min | 21 min | 25 min | 34 min | 42 min |
| 1,000 | - | - | - | - | 9 min | 15 min | 19 min | 23 min | 30 min | 38 min |
| 1,200 | - | - | - | - | - | 12 min | 16 min | 19 min | 25 min | 32 min |
| 1,500 | - | - | - | - | - | - | 12 min | 15 min | 20 min | 25 min |
| 1,600 | - | - | - | - | - | - | 11 min | 14 min | 19 min | 24 min |
| 2,000 | - | - | - | - | - | - | - | 9 min | 15 min | 19 min |

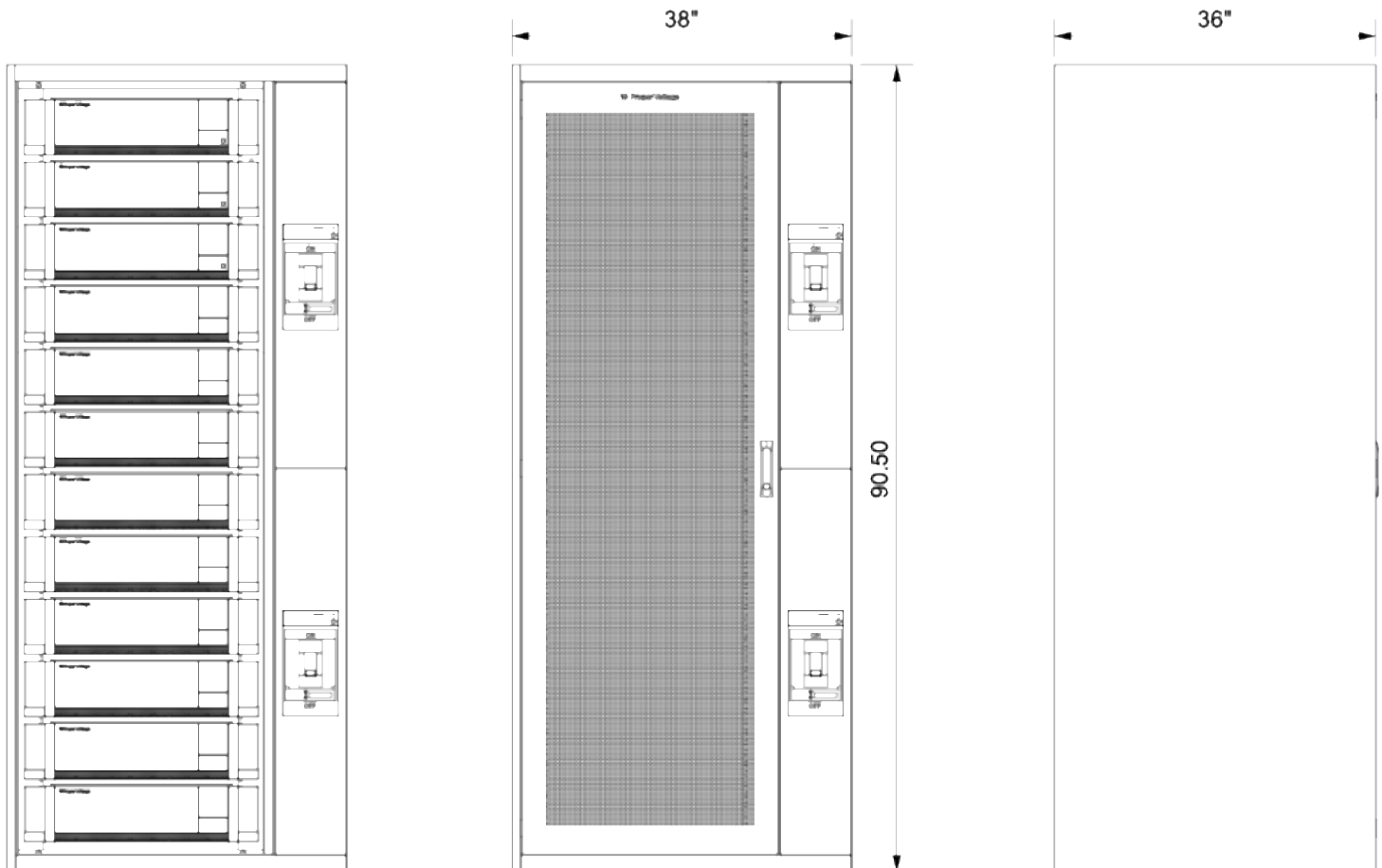




Salt Vault 480VDC Cabinet

MECHANICAL & PHYSICAL DATA [FULL RACK]

| | |
|--------------------------------|---|
| DIMENSIONS | 914 × 965 × 2299 mm (36 × 38 × 90.5 in) |
| WEIGHT | 1600 kg (3,527 lbs) |
| CONFIGURABILITY | 12 Packs per rack |
| CERTIFICATIONS PROVIDED | UL9540, UL9540A, UL1973, UN38.3 |

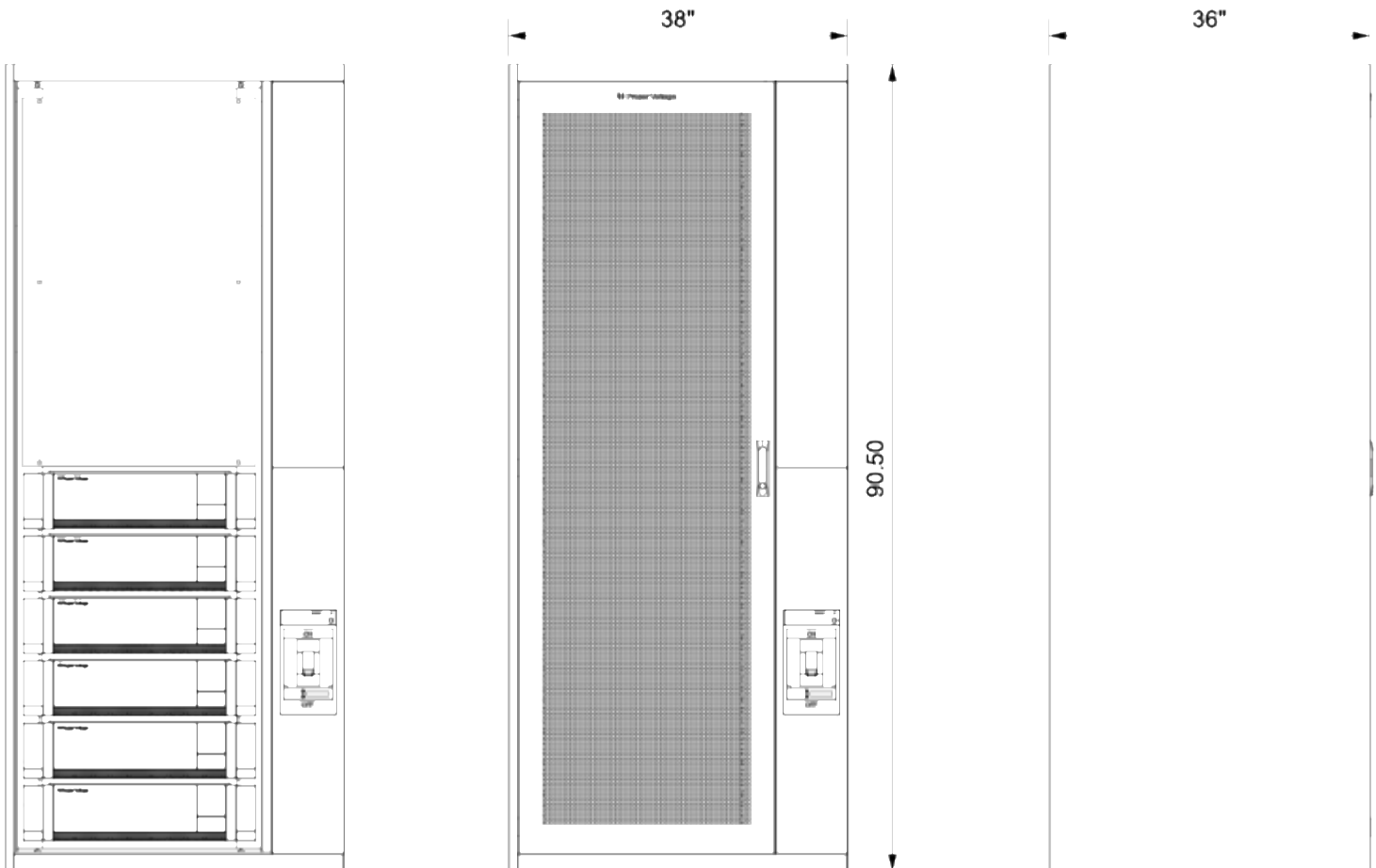




Salt Vault 480VDC Cabinet

MECHANICAL & PHYSICAL DATA [HALF RACK]

| | |
|--------------------------------|---|
| DIMENSIONS | 914 × 965 × 2299 mm (36 × 38 × 90.5 in) |
| WEIGHT | 1082 kg (2,387 lbs) |
| CONFIGURABILITY | 6 Packs per rack |
| CERTIFICATIONS PROVIDED | UL9540, UL9540A, UL1973, UN38.3 |





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