



Salt Vault Adaptive 12 - 150VDC

Sodium Ion Battery Backup

Safer, scalable energy storage

Built for High Voltage & High Power

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

10,000

Cycles

6.1kWh

Energy (4U)

12kW

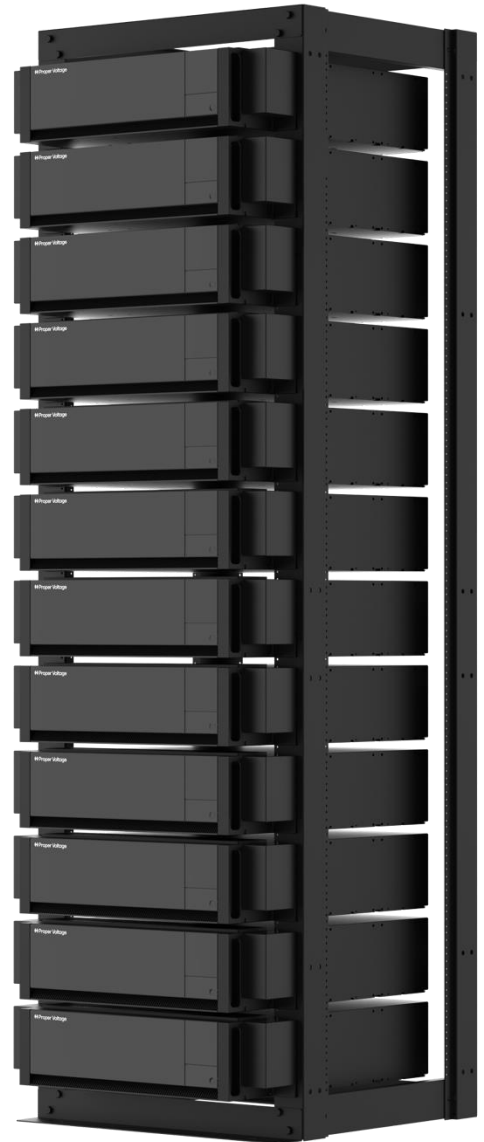
Power

-10 - 40°C

Op. Temp

12 - 150VDC

Voltage



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



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ELECTRICAL CHARACTERISTICS – PER MODULE

ADJUSTABLE VOLTAGE RANGE	12 to 150VDC
PROGRAMMABLE VOLTAGE STEPS	0.1V
NOMINAL CAPACITY	70Ah, 6.09kWh
REGULATION ACCURACY	±2.0%
MAX DISCHARGE POWER	12,000W
MAX CHARGE POWER	2,800W
CHARGE VOLTAGE RANGE	12-150VDC
MAX CONTINUOUS CHARGE CURRENT @ 48V	58A
MAX CONTINUOUS CHARGE CURRENT @ 125V	22A
MAX CONTINUOUS DISCHARGE CURRENT @ 48V	140A
MAX CONTINUOUS DISCHARGE CURRENT @ 125V	114A
VOLTAGE WINDOW / OPERATING VOLTAGE RANGE	Adjustable Voltage Range
CYCLE LIFE (AT SPECIFIED DOD AND TEMPERATURE)	10k Cycles @ standard charge/discharge currents

MECHANICAL & PHYSICAL DATA

DIMENSIONS	611 x 543 x 158 mm (24 x 21.3 x 6.2 in)
WEIGHT	86.2 kg (190 lbs)
RACK COMPATIBILITY	23" (4U)
INGRESS PROTECTION RATING	IP2x

ENVIRONMENTAL RATINGS

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)

INTERFACES & COMMUNICATIONS

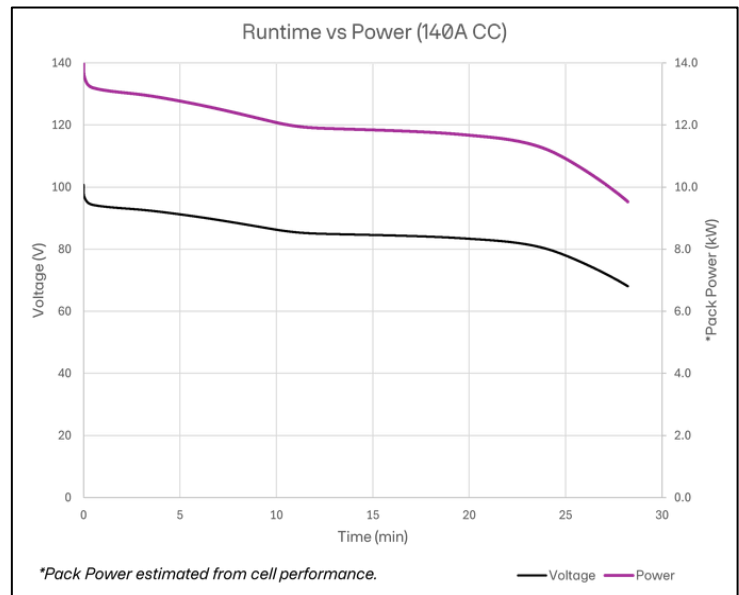
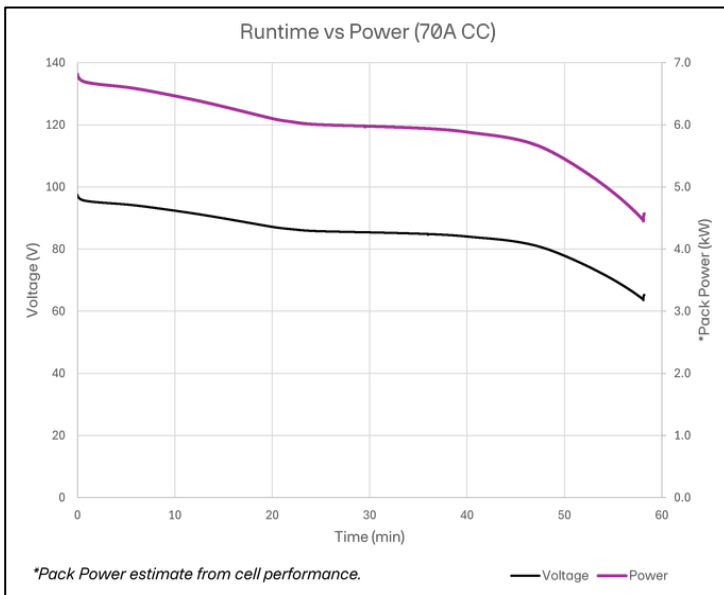
ELECTRICAL TERMINATIONS	Phoenix Contact: BPC 250 FT B/S 70
COMMUNICATIONS	RS485, Ethernet, Modbus



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48VDC RUNTIMES (HRS)

LOAD	QTY OF SALT VAULT ADAPTIVE MODULES IN PARALLEL									
	1	2	3	4	5	6	7	8	9	10
4	1:31:03	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00
5	1:12:50	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00
6	1:00:42	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00
8	N/A	1:31:03	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00
10	N/A	1:12:50	1:49:15	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00
15	N/A	N/A	1:12:50	1:37:07	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00	>2:00:00
20	N/A	N/A	54:37:00	1:12:50	1:31:03	1:49:15	>2:00:00	>2:00:00	>2:00:00	>2:00:00
25	N/A	N/A	N/A	58:16:00	1:12:50	1:27:24	1:41:58	1:56:32	>2:00:00	>2:00:00
30	N/A	N/A	N/A	N/A	1:00:42	1:12:50	1:24:58	1:37:07	1:49:15	>2:00:00
40	N/A	N/A	N/A	N/A	N/A	54:37:00	1:03:44	1:12:50	1:21:56	1:31:03
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	58:16:00	1:05:33	1:12:50
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54:37:00	1:00:42

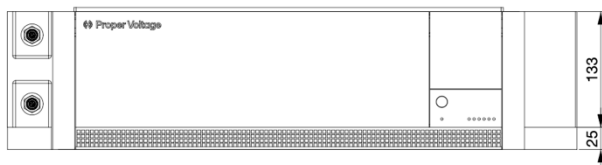
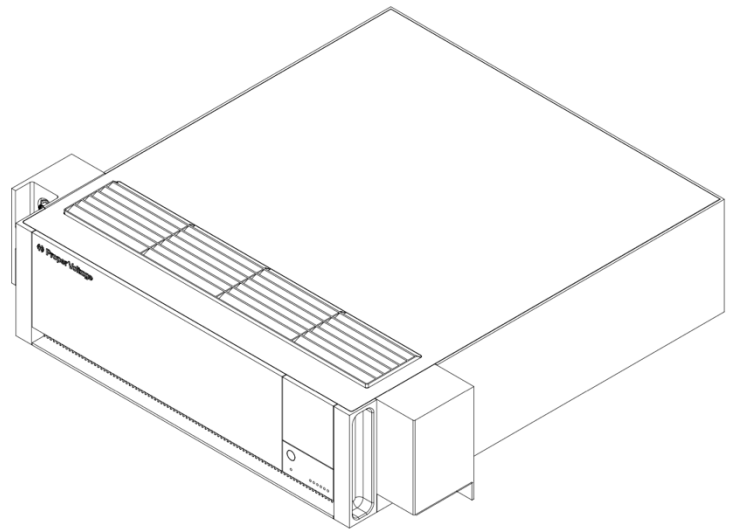
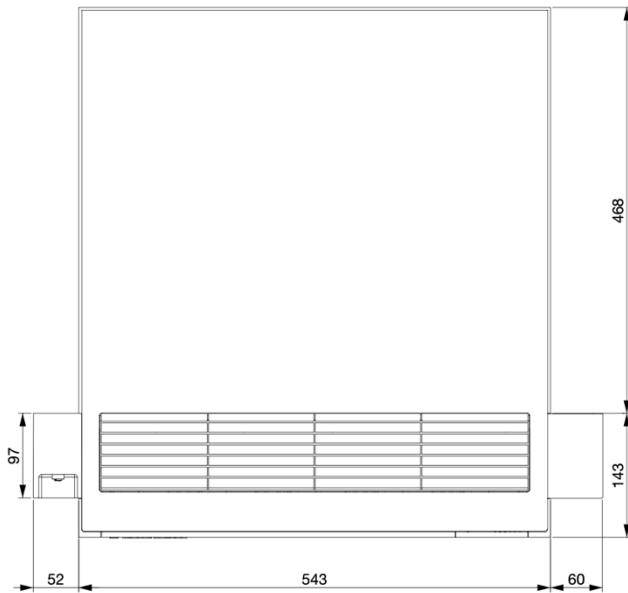




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MECHANICAL & PHYSICAL DATA

DIMENSIONS	611 x 543 x 158 mm (24 x 21.3 x 6.2 in)
WEIGHT	86.2 kg (190 lbs)
CONFIGURABILITY	Parallel up to 100+
CERTIFICATIONS PROVIDED	UL9540, UL9540A, UL1973, UN38.3





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