Pytes V5°

Features

- Remote Monitoring and Upgrading
- Higher Charge/ Discharge Rate
- Wider Operation Temperature
- Higher Energy Density
- Greater Scalability

Inverter Compatibility List

Sol-Ark LIMITLESS POWER
victron energy BLUE POWER
solis
LUXPOWER TEK
APsystems ALTENERGY POWER
EG4
GROWATT
hoymiles
MEGAREVO

V5° Specifications

Electrical

Nominal Voltage	51.2 V
Voltage Range	47.5 V ~ 57.6 V
Nominal Capacity	100 Ah
Nominal Energy	5.12 kWh
Recommended Charge/ Discharge Current[1]	75 A (3.84 kW DC)
Max Charge/ Discharge Current[2]	100 A (5.12 kW DC)
Peak Charge/Discharge Current	101 A ~ 120 A (3min); 121 A ~ 180 A (15 sec)

Special Features

WIFI Connection (Optional)	Remote monitoring and upgrade
Heating Film (Integrated)	Temperature Rise:18 °F / h / 10 °C / h Control Temperature: On: ⩽41°F / 5°C Off: ⩾59°F / 15°C

General

Chemistry	LFP
Communication Protocol	CAN / RS485
Dimensions (W x D x H)	17.40 x 20.87 x 5.51 inch (3.2 U) / 424 x 530 x 140 mm (3.2 U)
Weight	97 lb / 44kg
Operating Temperature[3]	Charge: 32 °F ~ 113 °F / 0 °C ~ 45°C Discharge: 14 °F ~ 122 °F / -10 °C ~ 50 °C
Round-Trip Efficiency	⩾ 95%
Cycle Life [4]	⩾ 6000 cycles
Altitude	< 13123.35 ft / 4000 m
Warranty [5]	10 years
Scalability	16 pcs (82 kWh) in a group 6 groups (492 kWh) in a system with a Pytes Hub

Certifications

UL 9540 Ed.2(2020) & Ed.3(2023), UL 9540A, UL 1973, CEC, SGIP

[1], [2]: The recommended and maximum charge/discharge currents apply when battery cell temperature is within 50 °F ~ 104 °F / 10 °C ~ 40 °C.
De-rated charge /discharge currents will occur if battery is operated outside of this temperature range.

[3] When the ambient temperature is between -0.4°F ~ 41°F / -18°C ~ 5°C , the heating film will activate to warm the battery until the temperature reaches the battery charging temperature range. External charging source (PV, grid, generator) is required for heating film operation.
[4] Operating conditions: 77 °F ± 7 °F / 25 °C ± 4 °C, 0.5 C/0.5 C @ 90% DOD, ret @70% (EOL). Total throughput energy: (51.2 V × 100 Ah / 1000 × 80% × 6000 / 1000) × 90%= 22 MWh
[5] 10 years or 6000 cycles (whichever comes first).

V5° Enclosures

V5° Brackets
hold up to 1*V5, stack up to 6*V5°

V5 BK2
hold up to 2*V5°

V5 BK1
hold up to 1*V5°

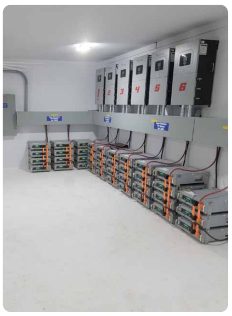
V-BOX-NEMA3
hold up to 2*V5°

VR-BOX-IC
hold up to 2*V5°

V-BOX-IC / V-BOX-IC se
hold up to 3*V5°, stack up to 6*V5°

V-BOX-OC
hold up to 4*V5°

Case Study



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