

Pytes

V5°



Features



Remote Monitoring and Upgrading



Higher Charge/ Discharge Rate



Wider Operation Temperature



Higher Energy Density



Greater Scalability

Inverter Compatibility List



V5° Specifications



Electrical

Nominal Voltage	512 V
Voltage Range	47.5 V ~ 57.6 V
Nominal Capacity	100 Ah
Nominal Energy	5.12 kWh
Recommended Charge/	75 A (3.84 kW DC)
Discharge Current ^[1]	
Max Charge/	100 A (5.12 kW DC)
Discharge Current ^[2]	
Peak Charge/Discharge Current	101 A ~ 120 A (3min); 121 A ~ 180 A (15 sec)

[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.

General

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

[3] Operating conditions: 77 °F ± 7 °F (25 °C ± 4 °C), 0.5 C/0.5 C @ 90% DOD, ret @70% (EOL). Total throughput energy: (512 V × 100 Ah / 1000 × 80% × 6000 / 1000) × 90% = 22 MWh
[4] 10 years or 6000 cycles (whichever comes first).

Special Features

WiFi Connection (Optional)	Remote monitoring and upgrade
Heating Pad (Integrated)	Temperature Rise: 18 °F / h / 10 °C / h Operation Temperature: -4 °F ~ 50 °F / -20 °C ~ 10 °C

Certifications

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

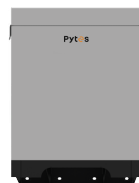
V5° Enclosures



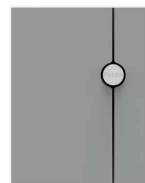
V5° Brackets
hold up to 1°V5, stack up to 6°V5°



V5 BK2
hold up to 2°V5°



V-BOX-NEMA3
hold up to 2°V5°



VR-BOX-IC
hold up to 2°V5°

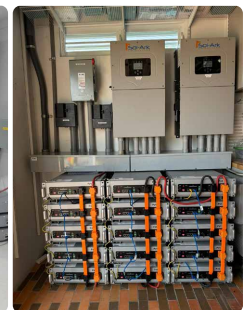


V-BOX-IC / V-BOX-IC se
hold up to 3°V5°, stack up to 6°V5°



V-BOX-OC
hold up to 4°V5°

Case Study



Pytes

PYTES (USA) ENERGY, INC
Website: www.pytesusa.com
E-mail: pytesusa@pytesgroup.com



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