

Wall-Mounted Outdoor LFP Battery



Automotive Grade Cell



Outdoor Rating



Fire Suppression



V16



Enhanced Safety

- Tier 1 automotive-grade 314 Ah cells
- Built-in aerosol fire suppression system
- ESS emergency shutdown function
- Proven and mature BMS protection mechanisms



Reliable

- IP66 enclosure
- C4-M corrosion resistance
- Self-heating function for low-temperature operation



Easy & Flexible

- Wall-mounted or ground-mounted installation
- Seamless integration with mainstream inverters via closed-loop control
- Remote monitoring and upgrades
- Suitable for indoor or outdoor applications



Scalable

- Expandable up to 16 units (256 kWh) in parallel without a Pytes hub

Electrical

Battery Chemistry	Lithium Iron Phosphate (LFP)
Rated Voltage	51.2 V
Rated Capacity	314 Ah
Rated Energy	16 kWh
Recommended Continuous Charge Current	125 A (6.4 kW)
Recommended Continuous Discharge Current	150A (7.68 kW)
Max. Continuous Charge / Discharge Current ¹	200 A (10.24 kW)
Peak Discharge Current	300 A (15.36 kW) @ 15 s

General

Dimensions (W × D × H)	27.10 ± 0.08 × 10.24 ± 0.08 × 27.56 ± 0.08 inch / 688.4 ± 2.0 × 260 ± 2.0 × 700.0 ± 2.0 mm
Weight	288 lb / 130.5 kg
Ingress Protection Rating	IP66
Anti-Corrosion Grade	C4-M
Mounting Method ²	Wall / Ground
Terminal	Phoenix Plug & Play DC Connector (Model: BPC 250 FT B 35-70)
Communication	CAN / RS485 / RS232 / Dry Contact / WiFi
Cycle Life ³	8000 cycles
Warranty ⁴	10 years

Internal Heating Film

Rated Input Voltage	51.2 Vdc
Rated Power	500 W
Control Temperature	On: ≤41 °F / 5 °C Off: ≥59 °F / 15 °C

Environmental

Charging Temperature ⁵	32 °F ~ 131 °F / 0 °C ~ 55 °C
Discharging Temperature	-4 °F ~ 131 °F / -20 °C ~ 55 °C
Recommended Operating Altitude	≤ 9843 ft / 3000 m
Relative Humidity	0 ~ 95%, non-condensing

Compliance

Certifications	UL 9540 Ed.3 (2023), UL 9540A (2025), UL 9540B, UL 1973, UN 38.3
Listings	CEC, SGIP, OGP

1. Max. continuous charge/discharge current per cycle. BMS will limit the current when temperature, SOC, or voltage reaches high or low thresholds.

2. Ground installation requires the additional purchase of a ground mounting bracket.

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: (51.2 V×314 Ah / 1000 × 80% × 8000 / 1000)×90%=92 MWh.

4. 10 years or 8000 cycles (whichever comes first).

5. 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.

