

Pytes

Wall-Mounted Outdoor LFP Battery

Tier 1

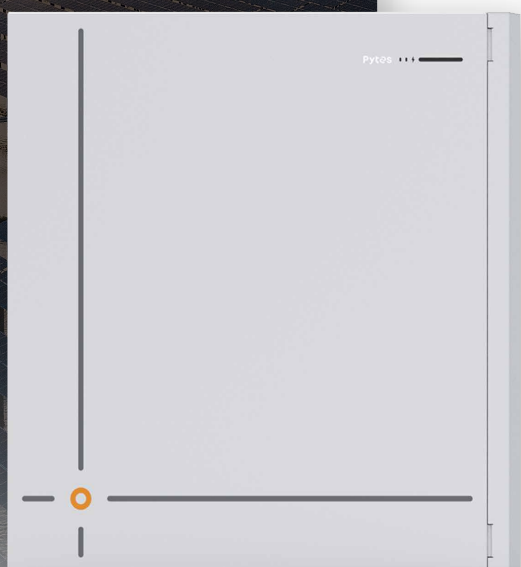
Automotive Grade Cell

IP66

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). Optional 2 year warranty extension available for purchase.

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.

