

Wall-Mounted Outdoor LFP Battery

Tier 1

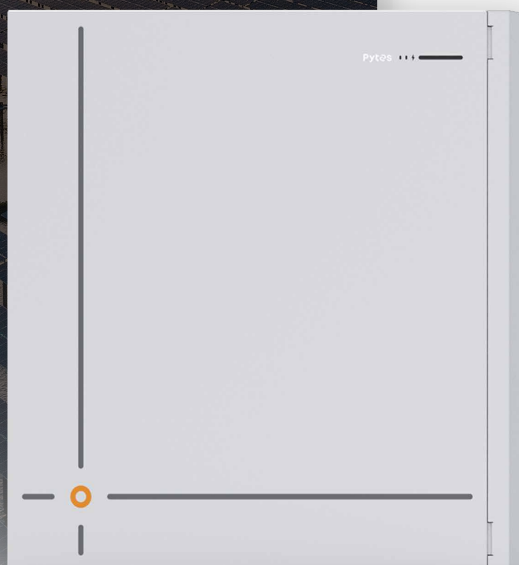
Automotive Grade Cell

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 / Discharge Current	125 A (6.4 kW)
Max Charge / Discharge Current	200 A (10.24 kW)
Peak Discharge Current	300 A (15.36 kW) @ 15 s

General

Dimensions (W × D × H)	26.42 x 10.24 x 27.56 inch (671 x 260 x 700 mm)
Weight (lb / kg)	288 / 130.5
Ingress Protection Rating	IP66
Mounting Method ¹	Wall / Ground
Terminal	Phoenix Plug & Play DC Connector
Communication Ports	CAN / RS485 / RS232 / Dry Contact / WiFi
Cycle Life ²	8000 cycles
Warranty ³	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 ⁴	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, UL 1973, UN 38.3
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1. Floor installation requires the additional purchase of a ground mounting bracket.

2. 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.

3. 10 years or 8000 cycles (whichever comes first). Optional 2 year warranty extension available for purchase.

4. When the ambient temperature is between -0.4°F (-18 °C) and 32 °F (0 °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.

