

FOR IMMEDIATE RELEASE

## Wiltson Energy Brings a LiFePO<sub>4</sub> Pack That Keeps Charging Below 0 °C to ees Europe 2026

*Most lithium stops accepting charge at freezing. Wiltson's 25.6V pack keeps charging through the cold — down to -30 °C, with no heater.*

MUNICH, Germany, 8 June 2026 — Most standard graphite-anode lithium packs stop accepting charge once cell temperature drops below 0 °C. Through a Northern European winter, that is many mornings — and on a snowed-in, off-grid site it can mean days when the panels are producing but the battery will not take the power. Wiltson Energy will show a 25.6V (24V-class) LiFePO<sub>4</sub> pack built to keep charging through the cold at ees Europe 2026 (Messe München, Stand B0.244), 23–25 June, part of The smarter E Europe.

The 25.6V, 6.4Ah pack charges at temperatures down to -30 °C with no pre-heating module. It also discharges from -40 °C to 60 °C, holding 90% of rated capacity at -40 °C under its specified low-temperature discharge test — but the cold-charging window is the point.

The 0 °C charge limit is an industry problem, not a Wiltson one. Charge a conventional graphite-anode lithium cell below freezing and metallic lithium can plate on the graphite anode — more so at higher current — so battery management systems block charge current while the pack stays below its low-temperature limit. That is why cold-climate installations bolt on a heater and wait for the pack to warm before charging can resume. Germany sees 30 to 45 frost days a winter; much of Scandinavia sees 60 to 80. On those days, an unheated pack can sit below 0 °C through the charging window and accept nothing until something warms it.

Wiltson's pack removes that step. Its cells are specified to take charge current below freezing, so the BMS allows charging down to -30 °C, with the current managed by temperature: the full 6.4A above 0 °C, half that down to -20 °C, and a fifth of it in the deepest cold near -30 °C. It charges at a lower rate in deep cold — a real trade-off — but it charges, where many standard packs accept no charge current.

For an off-grid site, that is an energy-budget difference. Midwinter daylight is short, and a heater that has to lift the pack above freezing before every charge spends part of the little energy the panels collect, at the moment it is scarcest. Leaving the heater out keeps that energy in the battery and removes one of the parts most likely to fail at an unattended site. The -30 °C rating is headroom: it gives margin for the -5 °C or -10 °C an ordinary winter actually delivers.

The pack suits unheated, hard-to-reach sites across cold climates: off-grid solar and storage, telecom and monitoring stations, outdoor sensor networks, and security enclosures.

“The market fixates on extreme numbers, but the real pain is at -5 °C,” said Ethan Jin, a senior executive at Wiltson Energy. “If a battery needs a heater just to start charging on an ordinary winter morning, it is spending the very energy the site is trying to harvest. We handle the cold at the cell level, so customers can leave the heater out — along with the service calls that follow when it fails.”

The pack carries the CE mark, with EMC and electrical-safety test reports, and is certified to IEC 62133-2 under the CB Scheme. It has passed UN 38.3 transport testing, and documentation is available for the EU Batteries Regulation (EU) 2023/1542, RoHS, REACH (Annex XVII), and the

POPs Regulation. It has also been tested to GJB 4477-2002, a Chinese military standard for lithium battery packs.

**Specifications:** 25.6V nominal · 6.4Ah (≈164Wh) · 16–29.2V operating window (BMS-controlled cutoff) · charges from –30 °C to 60 °C (temperature-managed rate) · discharge –40 °C to 60 °C, 90% capacity at –40 °C (specified low-temperature discharge test) · 10A maximum discharge · 2,000 cycles at 25 °C / 1,000 cycles under specified sub-zero conditions · PVC housing · 138 × 98 × 80 mm · 1.6 kg.

Wiltson Energy will show the pack and its full low-temperature range at Hall B0, Stand B0.244. Samples and datasheets are available at the stand or on request.

### **About Wiltson Energy**

Headquartered in Dongguan, China, Wiltson Energy (Dongguan Wiltson New Energy Technology Co., Ltd.) is a specialist manufacturer of low-temperature LiFePO<sub>4</sub> cells and battery packs for industrial use in cold climates.

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