

30Ah NMC Pouch Cell High C-Rate 5C fast-charging Lithium Cell

Key Specifications

Capacity	30Ah	Voltage	3.7V
Model	PR30N-P	Operating Temp	-43°C ~ 55°C

Product Overview

Model Number	PR30N-P
Type	Pouch Cell
Chemistry	NMC
Nominal Capacity	30.0Ah
Nominal Voltage	3.70V
Nominal Energy Density	194Wh/kg
Dimensions	11.9mm × 105.0mm × 217.0mm
Maximum Continuous Charge / Discharge Rate	5C / 10C
Maximum Pulse Charge / Discharge Rate	8C / 20C
Recommended Operating Temperature	-43°C to 55°C
Room Temperature Cycle Life	≥2000 cycles (100% DOD-80% SOC, 5C/8C)
Design Standards	GB/T 38058-2019, GB 31241-2022
Certification Standards	UN38.3, RoHS
Sample MOQ	10 pcs (Negotiable)
Sample Lead Time	7-15 working days
Bulk Lead Time	45 days (subject to volume & requirements)



Solution

High-power battery systems often fail at the same point: the cell may have enough capacity on paper, but voltage drop, heat generation, and low-temperature weakness limit the usable output under real load. This is especially clear in UAVs, emergency power systems, and other applications that require both high discharge rate and stable cold-weather performance.

The PR30N-P is a 30Ah NMC pouch cell designed for high-rate discharge and wide-temperature operation. With 10C continuous discharge, 20C pulse discharge, and a recommended operating range from -43°C to 55°C, it gives pack designers a compact cell option for systems where current output matters as much as energy density. For more cell options, visit LiTrue's [battery cells](#) page.

Application Areas

- UAV Battery Packs: suitable for drone platforms that need strong burst current during takeoff, climbing, and high-load flight.
- Low-Temperature Power Systems: the -43°C operating capability supports equipment used in cold regions and outdoor environments.
- High-Rate Battery Modules: the 5C/10C continuous rate helps pack designers build compact modules for demanding discharge profiles.
- Industrial Mobile Equipment: supports applications that require repeated high-current output with stable room-temperature cycle life.

FAQs

What type of cell is the PR30N-P?

The PR30N-P is a 30Ah NMC pouch cell with a nominal voltage of 3.70V. It is designed for high-rate

charge and discharge applications.

What is the maximum discharge capability?

The cell supports 10C maximum continuous discharge and 20C maximum pulse discharge. This makes it suitable for battery packs that need strong short-term power output.

Can this cell work in low-temperature environments?

Yes. The recommended operating temperature range is -43°C to 55°C, making it suitable for outdoor and cold-region applications.

Can LiTrue provide support for pack design?

Yes. LiTrue can support cell selection, battery pack design, and project matching based on voltage, current, size, and application requirements. Contact the [LiTrue team](#) for project evaluation.