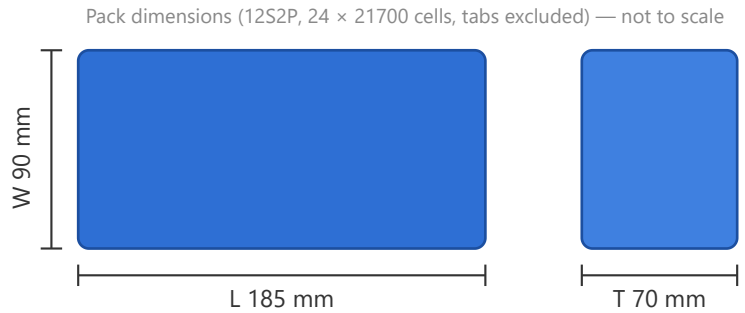


Lithium-ion Battery Pack

Product Datasheet · Model: 21700-12S2P · 43.2 V · 7600 mAh · 12S2P · with JBD smart BMS (30 A)



Product photo (representative image) — ABS enclosure, XT60 charge + XT90 discharge



Drawing of battery pack (T×W×L)

Model: PPG 21700-12S2P 12S2P 7600 mAh 43.2 V (328.32 Wh) Custom Battery Manufacturer

Electrical Characteristics	
Nominal Capacity	7600 mAh (0.2C, 33.6 V cut-off)
Nominal Voltage	43.2 V
AC Impedance	≤ 180 mΩ (pack, with PCM)
Cycle Life	≥ 500 cycles @0.2C/0.2C (≥ 80% capacity)
Self Discharge Rate	≤ 3% per month @25 °C

Mechanical Characteristics	
Cell Configuration	24 × 21700 Li-ion cell (12S2P), 3800 mAh / 3.6 V each
Typical Weight	approx. 1.9 kg
Dimensions (T×W×L)	70 × 90 × 185 mm
Enclosure	ABS + PVC
Connector	XT60 female (charge) + XT90 female (discharge)

Typical Applications

E-bikes & Scooters

Energy Storage

Backup Power

Portable Power

Instruments & Meters

Charging & Discharge Characteristic	
Standard Charge Current	3000 mA
Max. Continuous Charge Current	8000 mA
Charge Cut-off Voltage	50.4 V
Standard Discharge Current	1520 mA (0.2C)
Max. Continuous Discharge Current	30 A (50 A / 10 s pulse)
Discharge Cut-off Voltage	33.6 V (2.8 V/cell)

Temperature Characteristic	
Discharge Temperature	-20 ~ 60 °C (output cut off above 65 °C)
Charge Temperature	0 ~ 60 °C (no charging below 0 °C)
Recommend Storage Temperature	0 ~ 25 °C (long term)

PCM Specification	
Protection Board	JBD-HP16SA-P12S-30A-B smart BMS (12S, 30 A)
Over-charge Protection Voltage	4.25 ± 0.03 V/cell
Over-discharge Protection Voltage	2.8 ± 0.08 V/cell
Over-current Protection	70 – 100 A

Certificates	
MSDS / UN38.3 / CE / RoHS	Available on request

Specifications are subject to change without prior notice. Please confirm details with SafeLith before ordering. Storage: keep in a cool, dry place; recharge every 3 months if long stored.