BAK Small Cylindrical Cell Roadmap

Cylindrical Cell Roadmap

18650 Middle Power Cells

Model	Capacity Ah	2023 H1	2023 H2	2024 H1	2024 H2	2025 H1	2025 H2	2026 H1	2026 H2	2027 H1	2027 H2	2028 H1	2028 H2	2029 H1	2029 H2	2030 H1	2030 H2	remark
N18650CH	2.6	9.4 WH Hi-Ni 210wh/kg																0.5C/1C 1000+ cycles
N18650CL	2.9	10.4WH Hi-Ni 225wh/kg																0.5C/1C 800+ cycles
	2.9(EV)	10.4WH Hi-Ni 230wh/kg																0.5C/1C 1000 +cycles *(the 1st EV product with Hi-Ni in China)*
N18650CP	3.35	12.0WH Hi-Ni 255wh/kg																0.5C/1C 800+ cycles
	3.35 (low-T)	12.0WH Hi-Ni 255wh/kg																-40℃ discharge
N18650CP-34E	3.35	12.0WH Hi-Ni 255wh/kg																High temperature
N18650CR-35E	3.5	12.6WH Hi-Ni 265wh/kg																0.5C/1C 800+ cycles
	3.5 (low-T)	12.6WH Hi-Ni 265wh/kg																-40℃ discharge

* Charge: 0.5C CCCV 4.2V/ discharge: 0.2C, 2.5V cutoff (N18650CH 2.75V cutoff).

Under Development **Mass Production**

BAK

Cylindrical Cell Roadmap

21700 Middle Power Cells

Model	Capacity Ah	2023 H1	2023 H2	2024 H1	2024 H2	2025 H1	2025 H2	2026 H1	2026 H2	2027 H1	2027 H2	2028 H1	2028 H2	2029 H1	2029 H2	2030 H1	2030 H2	remark
N21700CG-50	5.0	18.0WH Hi-Ni						265wh/kg										0.5C/1C 800+ cycles
N21700CG-50E	5.0	18.0WH Hi-Ni						270wh/kg										High temperature
N21700CD-53E	5.3	19.1 WH Hi-Ni						280wh/kg										High energy (0.5C/1C 800+ cycles)
N21700CK-55E	5.5	19.8 WH Hi-Ni						288wh/kg										High energy (0.5C/1C 800+ cycles)
N21700CH-58E	5.8*	20.9 WH Hi-Ni						292wh/kg										Super high energy
N21700CU-60E	6.0*	21.6 WH Hi-Ni						300wh/kg										Super high energy
21700-6.5	6.5*				23.0 WH Hi-Ni					310wh/kg								Super high energy
21700-7.1	7.1*						24.8 WH Hi-Ni						335wh/kg					Super high energy

Charge: 0.5C CCCV 4.2V/ discharge: 0.2C, 2.5V cutoff .

* Cell max dimension withtube: diameter/21.7mm, height/71.00mm.

Under Development

Mass Production

Cylindrical Cell Roadmap

18650&21700 High Power Cells

Model	Capacity Ah	Max charge current	Max discharge current	2023 H1	2023 H2	2024 H1	2024 H2	2025 H1	2025 H2	2026 H1	2026 H2	2027 H1	2027 H2	2028 H1	2028 H2	2029 H1	2029 H2	2030 H1	2030 H2	remark
N18650COP	2.5	*6A*	*30A*	9.0WH Hi-Ni																*Super power*
N18650CQP	3.0	4A	20A			10.8WH Hi-Ni														*High power*
N21700CGP	4.0	6A	40A					14.4 WH Hi-Ni												*High power*

* Charge: 0.5C CCCV 4.2V/ discharge: 0.2C, 2.5V cutoff .

www.bak

Under Development

Mass Production

BAK

Cylindrical Cell Roadmap

Full Tab technology

Advanced new structure improves super high power& Fast charge &Low heat generating performance

	Capacity Ah	Max charge current	Max discharge current	2023 H1	2023 H2	2024 H1	2024 H2	2025 H1	2025 H2	2026 H1	2026 H2	2027 H1	2027 H2	2028 H1	2028 H2	2029 H1	2029 H2	2030 H1	2030 H2	remark
INR2170-40D	4.0	12A	70A	14.4WH Hi-Ni																*Super high power*
INR2170-45D	4.5	13.2A	60A	16.2 WH Hi-Ni																*Super high power*
INR2170-50D	5.0	10A	30A	18.0WH Hi-Ni																*Super high power*
INR2170-60D	6.0	12A	30A					21.6WH		Hi-Ni										*Super high power*
INR1865-30D	3.0	9A	50A				10.8WH		Hi-Ni											*Super high power*

* Charge: 0.5C CCCV 4.2V/ discharge: 0.2C, 2.5V cutoff .

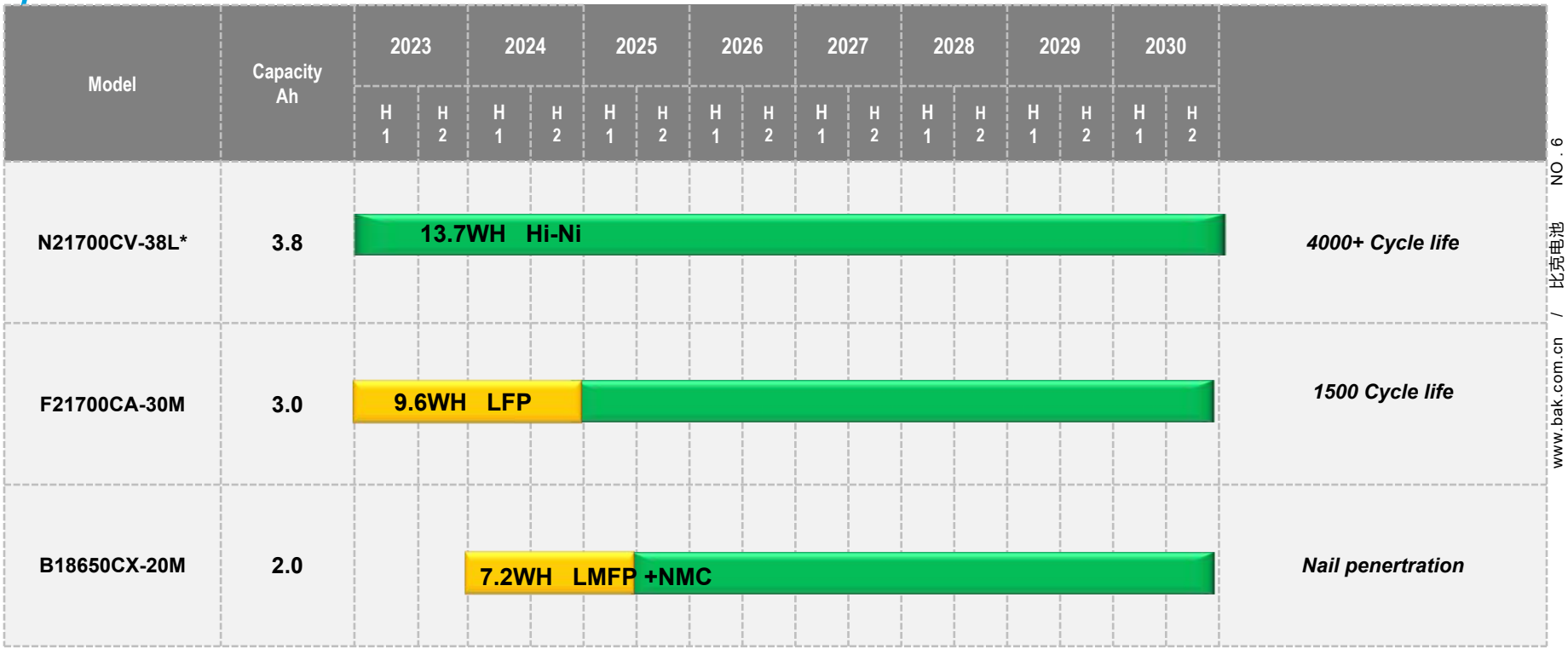
Under Development

Mass Production

BAK

Cylindrical Cell Roadmap

Long cycle life& High safety



* Charge: 0.5C CCCV 4.06V/ discharge: 0.2C, 2.75V cutoff .

Under Development

Mass Production

BAK LFP Cylindrical & Big Cylindrical Cell Roadmap

26650 LFP Cell Roadmap

Type	Model	Remark	2023				2024				2025			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
26650LFP High Energy	FS3-3.6Ah	ESS	135Wh/kg 3000cycles											
	FS4-4.0Ah	ESS	145Wh/kg 3000cycles											
	FS5-4.5Ah	ESS					155Wh/kg 2000cycles							
26650LFP Middle Power	FS3S-3.6Ah	ESS/ UPS/Power tools		132Wh/kg 3500cycles, 5C continuous discharge										
26650LFP High Power	PFS-3.0Ah	UPS/ Power tools	10C continuous discharge , 20C5S pulse discharge											
	PFS2-3.0Ah	UPS/Power tools/ Start-stop power supply	Full Tab，15C continuous discharge , 50C1S pulse discharge，30C 10S pluse discharge											
	HP-2.5Ah	UPS/Power tools/ Start-stop power supply	Full Tab，25C continuous discharge , 80C1S pulse discharge，40C 10S pluse discharge											

- Sample Development
- Trial production
- Mass Production

- The cell development schedule is subject to change without prior notice

26700 LFP Cell Roadmap

Type	Model	Remark	2023				2024				2025			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
26700LFP High Energy	FB-4.0Ah	LEV/ESS	140Wh/kg 3000cycles											
	FB2-4.5Ah	LEV/ESS	158Wh/kg 3000cycles											
	FB4-5.0Ah	LEV/ESS							166Wh/kg 2000cycles					
26700LFP Low Temp.	LT-4.0Ah	LEV/ESS					140Wh/kg charge@-10℃, discharge@-40℃							

■ Sample Development Trial production Mass Production

■ The battery development schedule is subject to change without prior notice

32140 LFP Cell Roadmap

Type	Model	Remark	2023				2024				2025				2026			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
32140FS-15Ah Cylindrical	32140FS 1.0	LEV/ESS	163Wh/kg 0.5C/0.5C 2500 cycles															
	32140FS 2.0 Middle rate	LEV/ESS							163Wh/kg 0.5C/1C 2500cycles & 1.2C/2C 1000 cycles									
	32140FS 3.0 High rate	LEV/ESS							163Wh/kg 0.5C/1C 2500cycles & 1.8C/3C 800 cycles									
	32140FS-Long Cycle	LEV/ESS									163Wh/kg 0.5/0.5C 4000 cycles							

- Sample Development
- Trial production
- Mass Production

- The battery development schedule is subject to change without prior notice

40/46 series LFP Cell Roadmap

Type	Model	Remark	2024				2025				2026			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
40140	20Ah	ESS		160Wh/kg 1C/1C 3000 cycles										
46120	25Ah	EV/ESS			170Wh/kg 0.5C/1C 2500 cycles									

■ Sample Development Trial production Mass Production

■ The battery development schedule is subject to change without prior notice

Cylindrical Cell Roadmap

Tabless cells of big cylindrical (EV)

	2023				2024				2025				2026				应用领域 Application
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
INR2170-25B	9.2Wh | Charge: 5C* Max. | Discharge: 24C Max. | ET: > 20.0kWh | ED: 143Wh/Kg 379.5Wh/L																HEV, PHEV, eVTOL
INR2170-48B	17.3Wh | Charge: 2C* Max. | Discharge: 8C Max. | ET: > 15.0kWh | ED: 270Wh/Kg 712.5Wh/L																EV, PHEV, eVTOL
INR2170-55B	20.1Wh | Charge: 2C* Max. | Discharge: 8C Max. | ET: > 17.6kWh | ED: 296Wh/Kg 831.0Wh/L																EV, PHEV, eVTOL
INR26105-110B	39.9Wh | Al-case | IR: AC < 3mΩ DC < 6mΩ | FC: < 12min (10 - 80%SOC) | ET: > 35.0kWh | ED: 285Wh/Kg 716.5 Wh/L																EV, PHEV
INR4695-330B	119.0Wh | IR: AC < 1mΩ DC < 3mΩ | FC: < 15min (10 - 80%SOC) |ET: > 104.0kWh | ED: 270Wh/Kg 754.0Wh/L																BEV
INR4680-280B	101.5Wh | IR: AC < 1mΩ DC < 3mΩ | FC: < 13min (10 - 80%SOC) | ET: > 88.5kWh| ED: 278Wh/Kg 763.5Wh/L																BEV
INR4680-320B	117.0Wh | IR: AC < 1mΩ DC < 3mΩ | FC: < 15min (10 - 80%SOC) |ET: > 101.0kWh | ED: 300Wh/Kg 870.0Wh/L																BEV, eVTOL
IXR4695-230B	85Wh | IR: AC < 1.5mΩ DC < 5mΩ | FC: < 20min (10 - 80%SOC) | ET: > 213.0kWh | ED: 215Wh/Kg 545Wh/L																BEV, ESS

Concept Development Mass Production

Note:

FC: Fast charge/快充

ET: Energy throughput until capacity retention reaches 80%/吞吐量直到电芯容量达到80%

ED: Energy density/能量密度

*: Continuous charge持续充电

**：46 series can customized the height of the cell from 80-120mm/46系列支持高度定制（80-120㎜）

BAK Prismatic Cell Roadmap

BAK Prismatic Cell Roadmap—— LFP（ESS）

For E

Model T*W*H （Overall height ）	Capacity -Ah	Energy Density -Wh/kg	2024				2025				2026				2027				Remark
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
2714897（102）	33	125					2000 cycles, 1C/6C												ESS
3914895（100）	50	145					4000 cycles, 1C/1C												ESS
3914895（100）	60	153					4000 cycles, 1C/1C												ESS
40220112（117）	85	133					2000 cycles, 1C/4C												ESS
40220112（117）	100	154					4000 cycles, 0.5C/0.5C												ESS
50160116（119）	100	159					4000 cycles, 0.5C/0.5C												ESS
60220112（117）	150	157					4000 cycles, 0.5C/0.5C												ESS
71173204（207）	280	166					10000 cycles, 0.5P/0.5P, @70%SOH												ESS
71173204（207）	314	183					10000 cycles, 0.5P/0.5P, @70%SOH												ESS
71173204（207）	345	200					10000 cycles, 0.5P/0.5P, @70%SOH												ESS

Under Development

Mass Production

BAK 比克电池 BAK BATTERY

BAK Prismatic Cell Roadmap—— LFP（EV）

Model T*W*H （Overall height）	Capacity -Ah	Energy Density -Wh/kg	2024				2025				2026				2027				Remark
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
3914895（100）	70	175									3000 cycles, 1C/1C 15min charge 10%-80%SOC								EV
40220112（117）	100	154									3000 cycles, 1C/1C 15min charge 10%-80%SOC								EV
60220112（117）	150	157									3000 cycles, 1C/1C 15min charge 10%-80%SOC								EV
54173204（207）	230	180					4000 cycles, 1C/1C, @70%SOH 15min charge 10%-80%SOC												EV
71173204（207）	304	180					4000 cycles, 0.5C/0.5C, @70%SOH 15min charge 10%-80%SOC												EV
71173204（207）	304	180									4000 cycles, 0.5C/0.5C, @70%SOH								LFP Semi Solid

Under Development

Mass Production

BAK Prismatic Cell Roadmap—— Sodium-ion

E无止境 | Passion For E

Model T*W*H （Overall height）	Capacity /Ah	Energy Density /Wh/kg	2024				2025				2026				2027				Remark
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
3914895（100）	45	115					2500 cycles, 0.5C/0.5C												Layered oxide cathode
50160116（119）	75	119					2500 cycles, 0.5C/0.5C												layered oxide cathode
54173204 (207)	170	129					2500 cycles, 0.5C/0.5C												layered oxide cathode
50160116（119）	54	100					8000 cycles, 0.5C/0.5C, @70%SOH												Poly anion cathode
71173204（207）	180	115					10000 cycles, 0.5C/0.5C, @70%SOH												Poly anion cathode

Under Development

Mass Production

BAK 比克电池 BAK BATTERY

BAK Prismatic Cell Roadmap—— LMFP

E无止境 | Passion For E

Model T*W*H （Overall height ）	Capacity /Ah	Energy Density /Wh/kg	2024				2025				2026				2027				Remark
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
2714897（102）	37	180									2500 cycles, 0.5C/0.5C								EV
40220112（117）	100	185									2500 cycles, 0.5C/0.5C								EV
71173204（207）	320	208									3000 cycles, 0.5C/0.5C								EV

Under Development

Mass Production

BAK 比克电池 BAK BATTERY