SES

SES AI BATTERY SOLUTIONS

- High-Energy
- High-Power
- AI-Enhanced







Founded in 2012, SES AI Corporation (NYSE: SES) is a global leader in advanced lithium-ion battery innovation. Headquartered in Boston, with manufacturing in the United States, South Korea, and Malaysia, SES AI accelerates the world's energy transition through AI-driven material discovery and battery development.

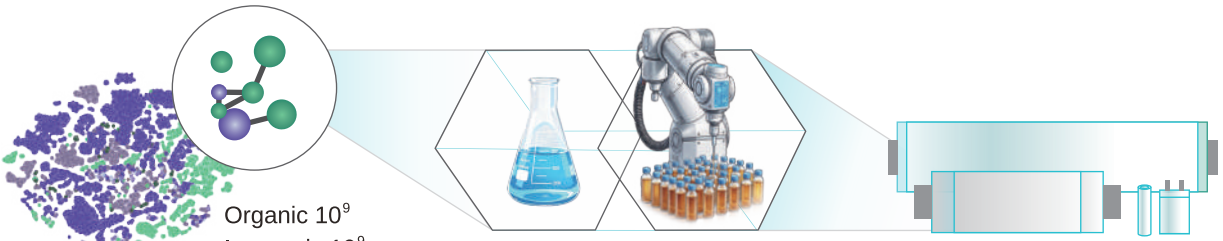
Our high-energy and high-power cells are the first in the world to incorporate electrolyte materials discovered by AI. Designed for demanding commercial and defense applications, SES AI cells power urban air mobility, drones, robotics, and other next-generation systems.

SES AI batteries are engineered to meet the highest safety and regulatory standards and are supported by a reliable, adaptable global supply chain—delivering performance, reliability, and scalable manufacturing worldwide.



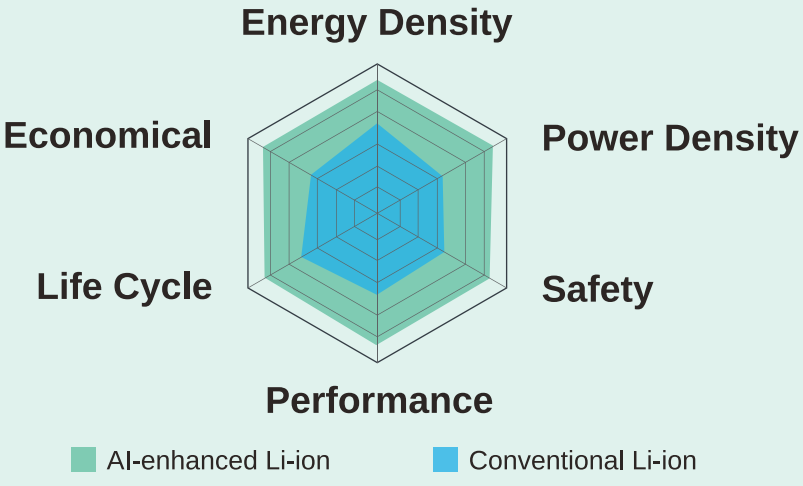
AI-ENHANCED MATERIAL DISCOVERY

We use machine learning accelerated computation chemistry to map the world's largest database of battery-relevant molecules and their properties. This allows us to craft a custom solution for your unique challenge that's faster and more advanced than conventional approaches.



HIGH ENERGY AND POWER DENSITY

AI-enhanced Li-ion batteries containing AI-discovered electrolyte materials can achieve higher energy density and power density, longer cycle life, and improved safety over conventional Li-ion batteries.



DEPENDABLE SUPPLY CHAIN WITH HIGH-VOLUME PRODUCTION READINESS



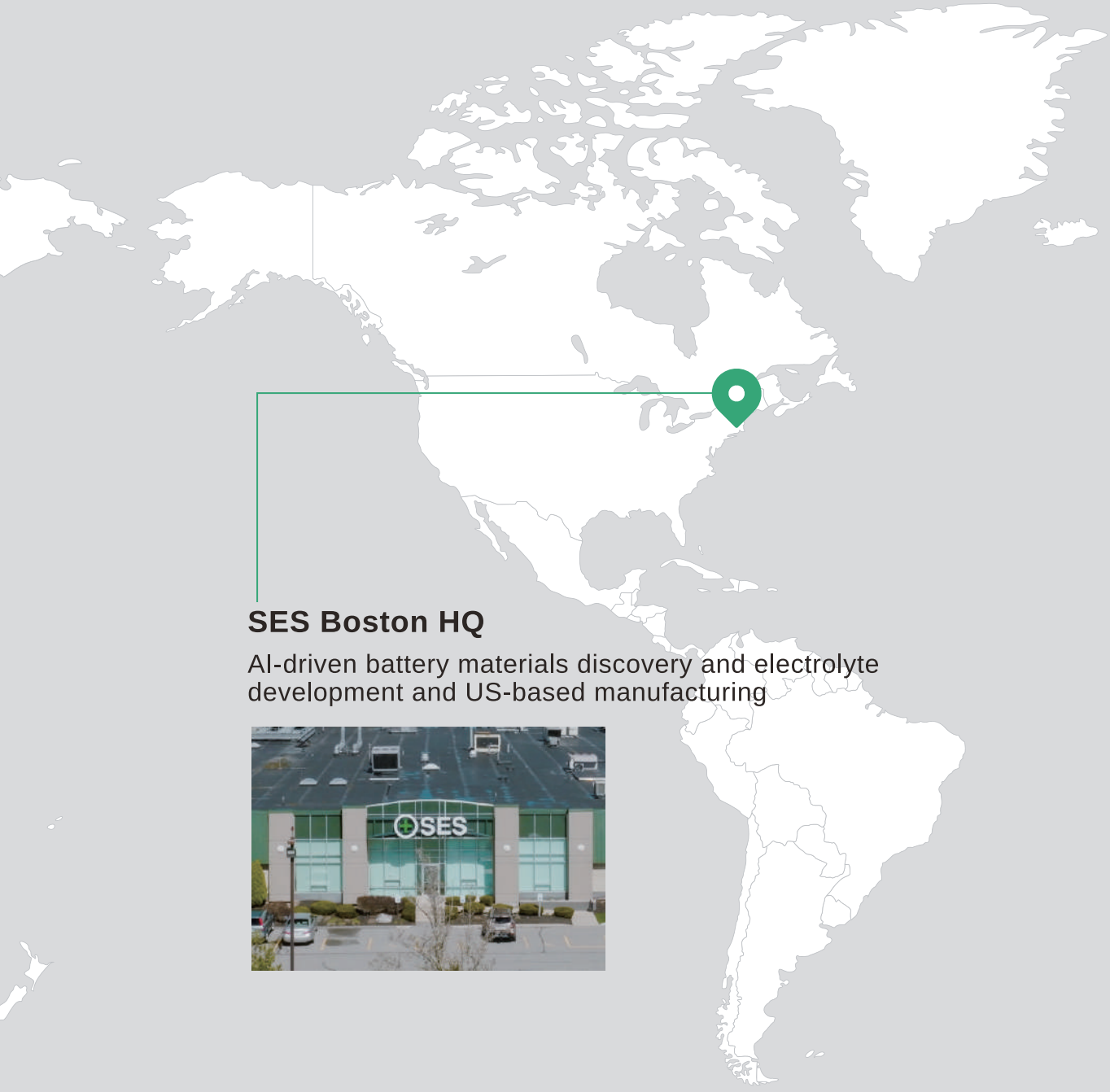
SES South Korea

One of the Largest Drone Pouch Cell Manufacturing Plants Outside of China

SES Malaysia

Cell Manufacturing

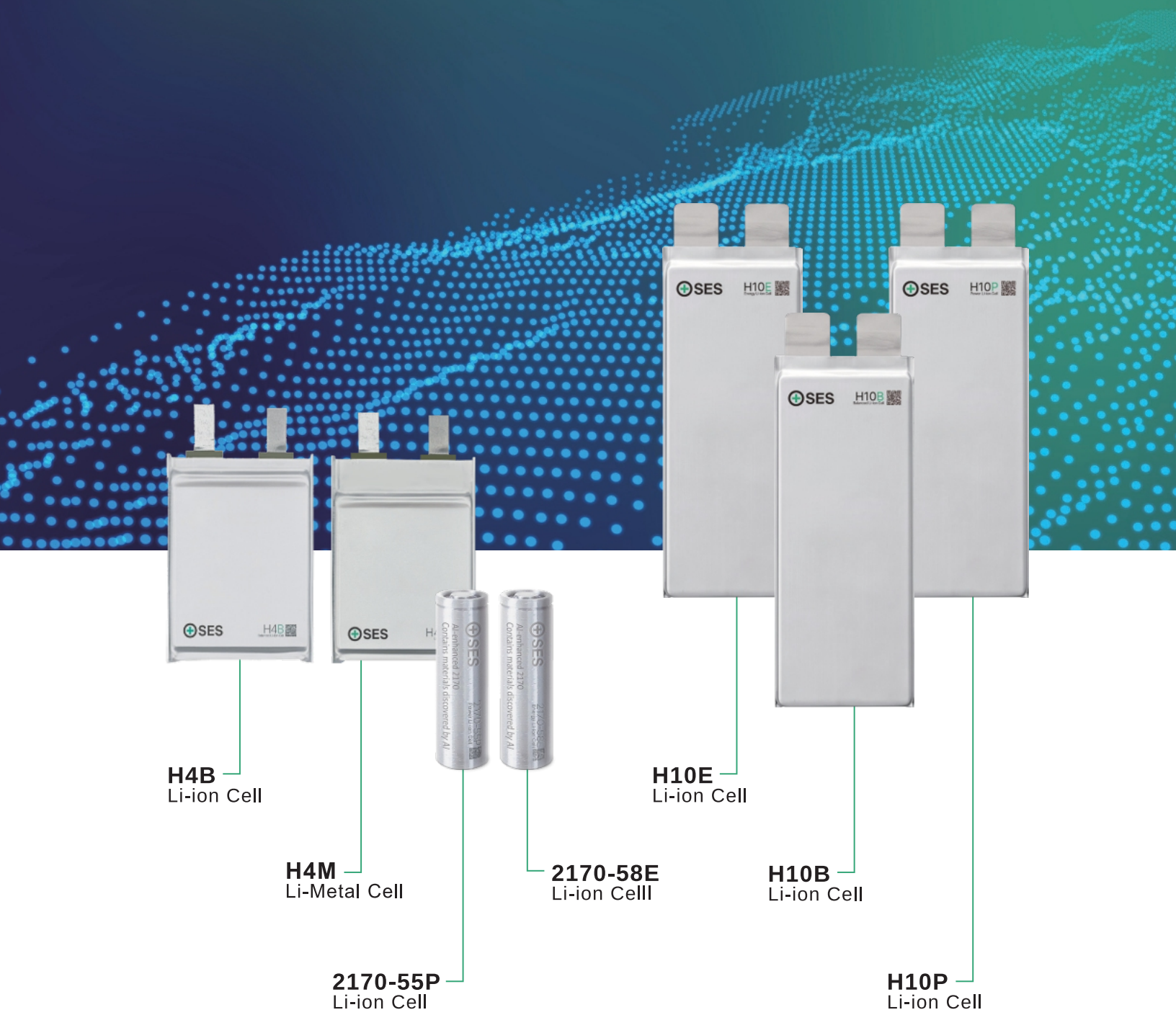
We source materials and manufacture cells across our United States, South Korea, and Malaysia facilities to ensure compliance and a dependable supply for our customers.



SES Boston HQ

AI-driven battery materials discovery and electrolyte development and US-based manufacturing

PRODUCT FAMILY



H4B
Li-ion Cell

H4M
Li-Metal Cell

2170-55P
Li-ion Cell

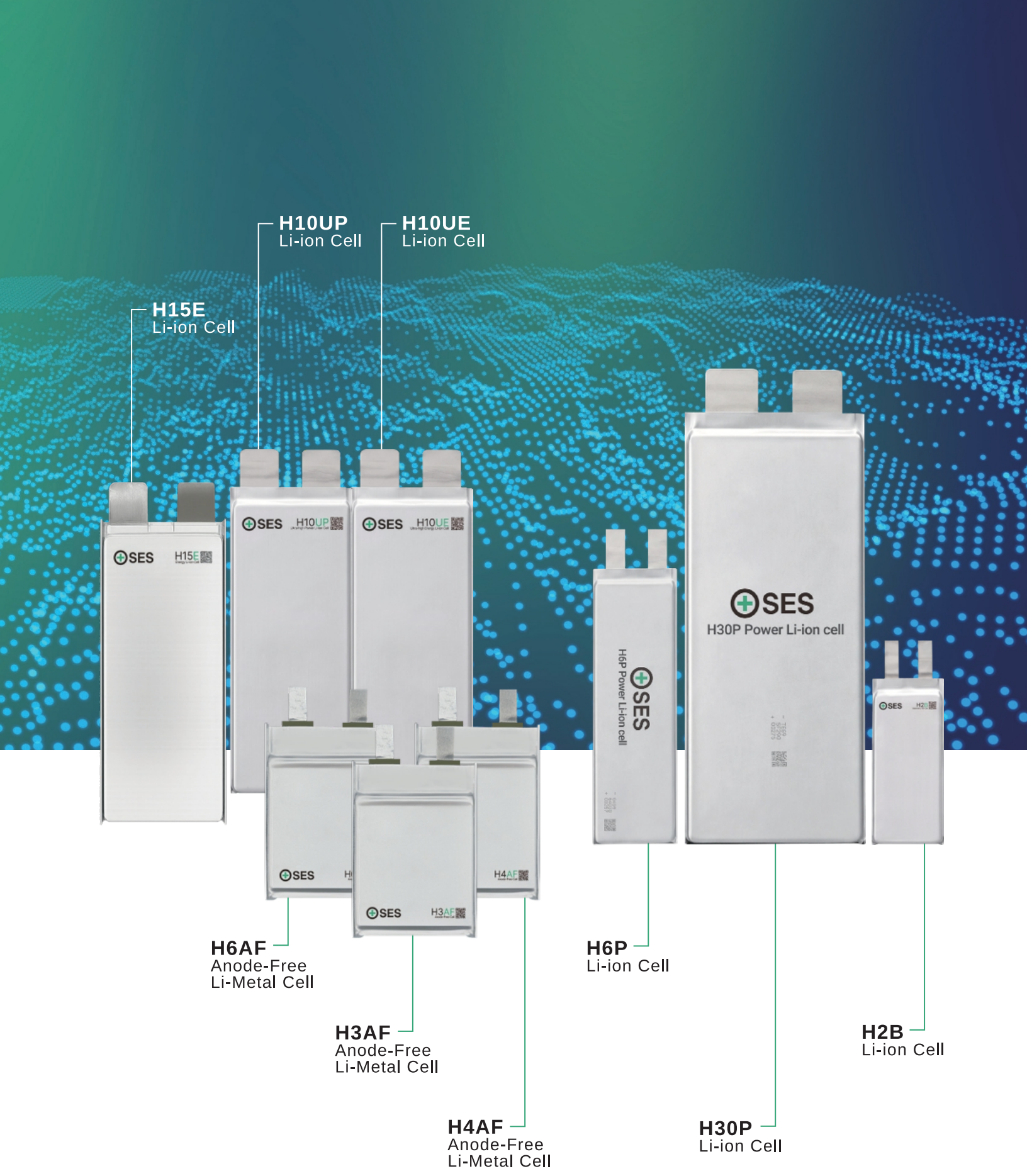
2170-58E
Li-ion Cellll

H10E
Li-ion Cell

H10B
Li-ion Cell

H10P
Li-ion Cell

M=metal P=power E=energy B=balanced UE=ultra-high energy UP=ultra-high power AF=anode-free


H10UP
Li-ion Cell
H10UE
Li-ion Cell
H15E
Li-ion Cell
SES
H15E
SES
H10UP
SES
H10UE
SES
H6P Power Li-ion cell
SES
H30P Power Li-ion cell
SES
H2B
SES
H4AF
SES
H3AF
H6AF
Anode-Free
Li-Metal Cell
H3AF
Anode-Free
Li-Metal Cell
H4AF
Anode-Free
Li-Metal Cell
H6P
Li-ion Cell
H30P
Li-ion Cell
H2B
Li-ion Cell

AI-ENHANCED, HIGH-ENERGY DENSITY BATTERIES FOR DRONES, ROBOTICS, AND MORE.







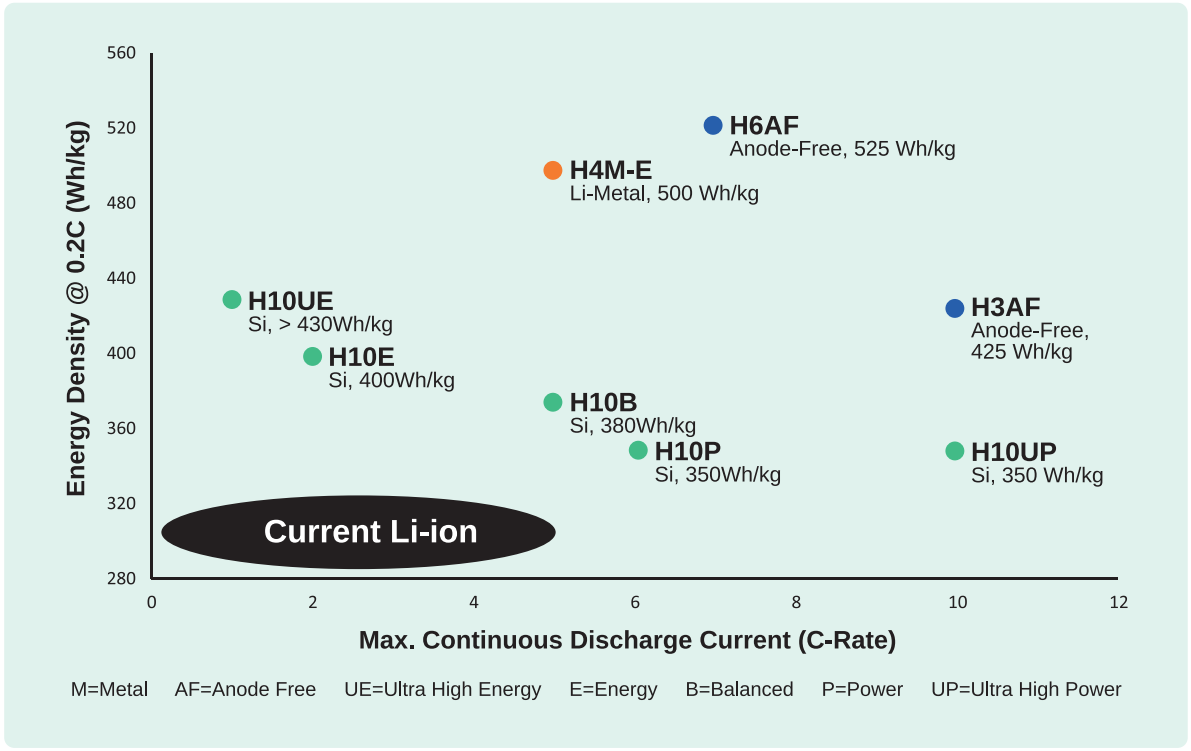
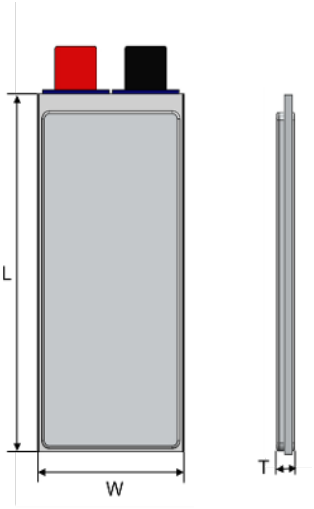


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H10P Power Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	10.8 Ah
Energy	Typical	37.5 Wh
Cell Voltage	Nominal	3.47 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	4C
Discharge Rate	Maximum Continuous	6C
	Maximum Pulse @50% SoC, 25°C, 30s	10C
Temperature	Discharge	–20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR (1kHz @30% SOC)	≤ 5 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 10 mΩ
Weight		111 ± 2.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric@25°C, 100%DoD	340 Wh/kg (C/5)
		305 Wh/kg (5C)
Cycle Life	+1.5C/–3C, 2.7–4.25V, 80% SOH, 0 PSI	> 800 @ 25°C
		> 600 @ 45°C
Certification		UN38.3, UL1642, IEC 62133

DIMENSIONS		
Size	L	139 ± 1.0 mm
	W	59 ± 1.0 mm
	T @30% SOC	6.2 ± 0.3 mm

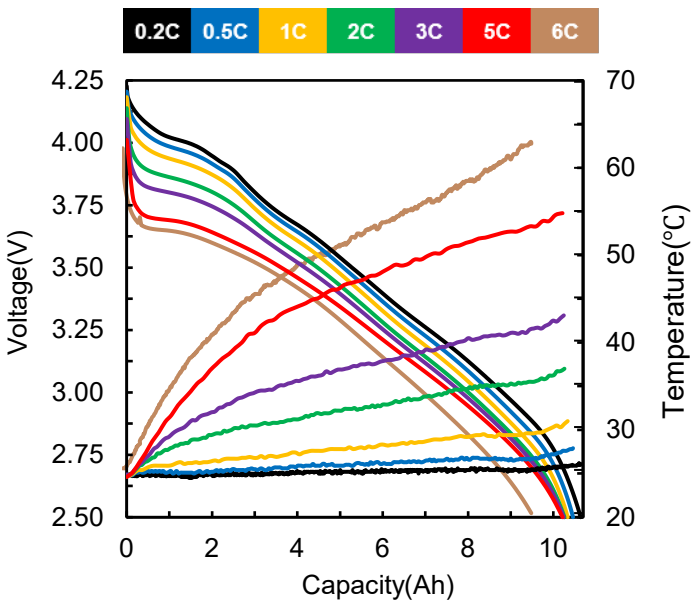
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H10P Power Li-ion Cell

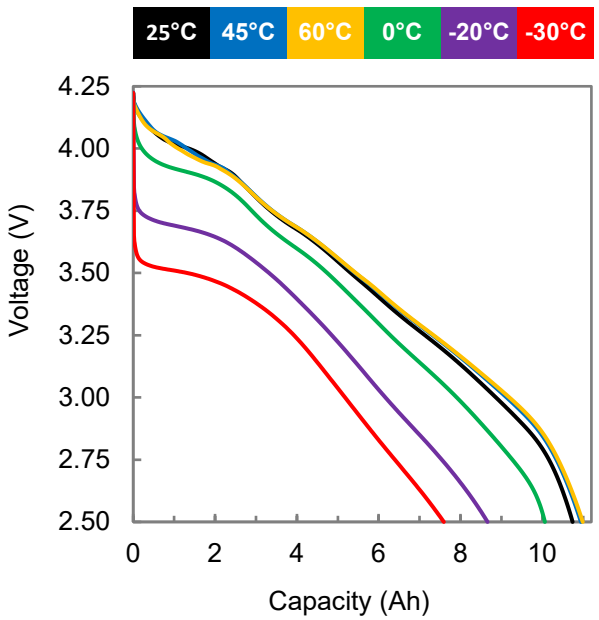
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.03C cut off
Discharge: 25 °C, 0.2C/0.5C/1C/2C/3C/5C/6C



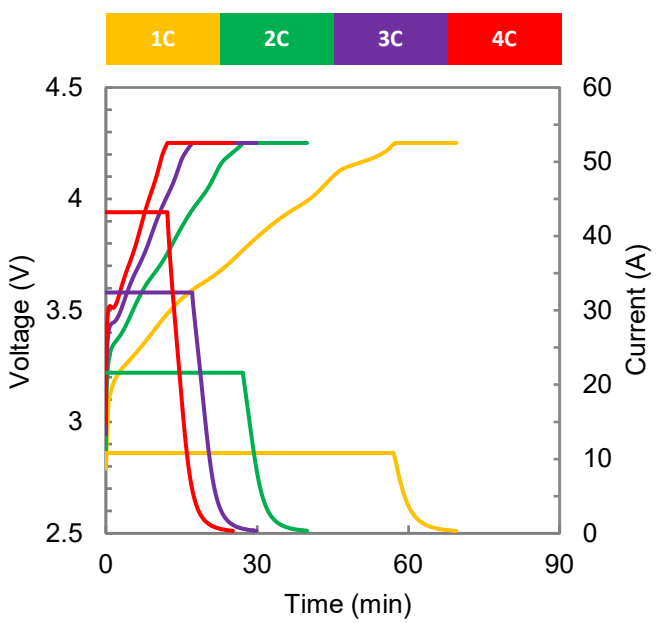
High/Low Temperature Discharge Capability

Charge: 1C CCCV with 0.03C cut off @ 25 °C
Discharge: 0.2C @ 60/45/25/0/-20/-30 °C



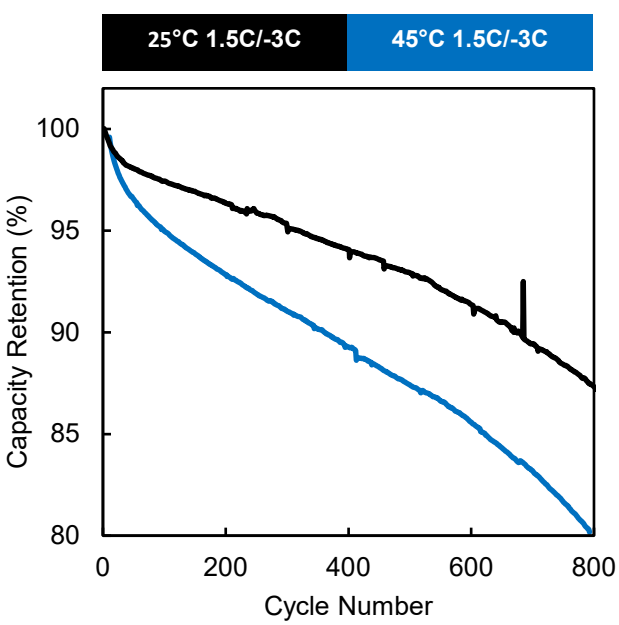
Charge Rate Profiles

Charge: 25 °C, 1C/2C/3C/4C CCCV w/ 0.03C cut off
Discharge: 25 °C, 0.2C



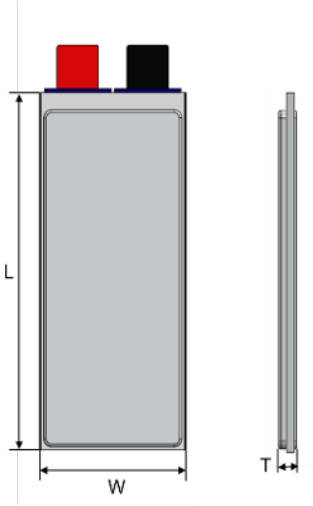
Cycle Life Performance

Charge: 1.5C CCCV with 0.03C cut off
Discharge: 3C



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H10B Balanced Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	11.4 Ah
Energy	Typical	39.0 Wh
Cell Voltage	Nominal	3.4 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	4C
Discharge Rate	Maximum Continuous	5C
	Maximum Pulse @50% SoC, 25°C, 30s	8C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR (1kHz @30% SOC)	≤ 5 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 15 mΩ
Weight		103 ± 2.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric@25°C, 100%DoD, C/5	380 Wh/kg
Cycle Life	+1C/−3C, 2.7−4.25V, 25°C, 80% SoH, 0 PSI	> 400 @ 25°C
Certification		UN38.3

DIMENSIONS		
Size	L	139 ± 1.0 mm
	W	59 ± 1.0 mm
	T @30% SOC	5.6 ± 0.3 mm

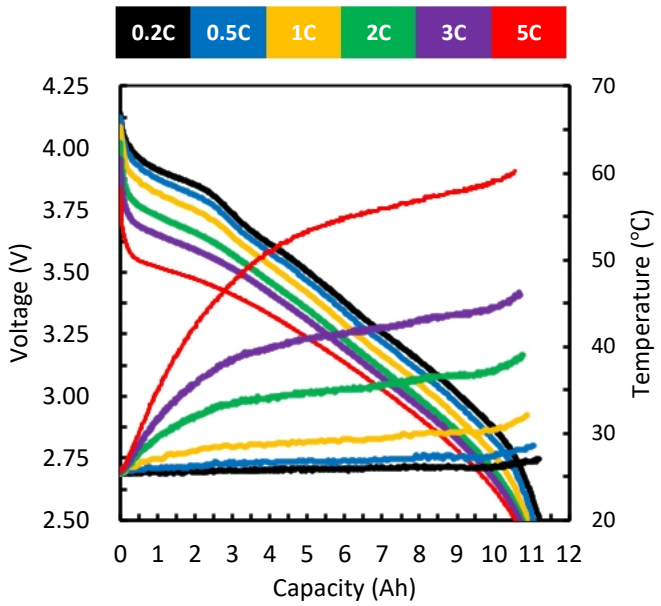
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H10B Balanced Li-ion Cell

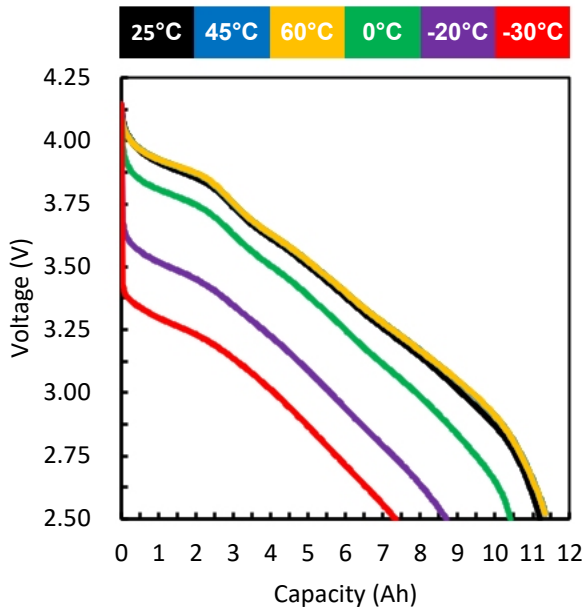
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.05C cut off
Discharge: 25 °C, 0.2C/0.5C/1C/2C/3C/5C



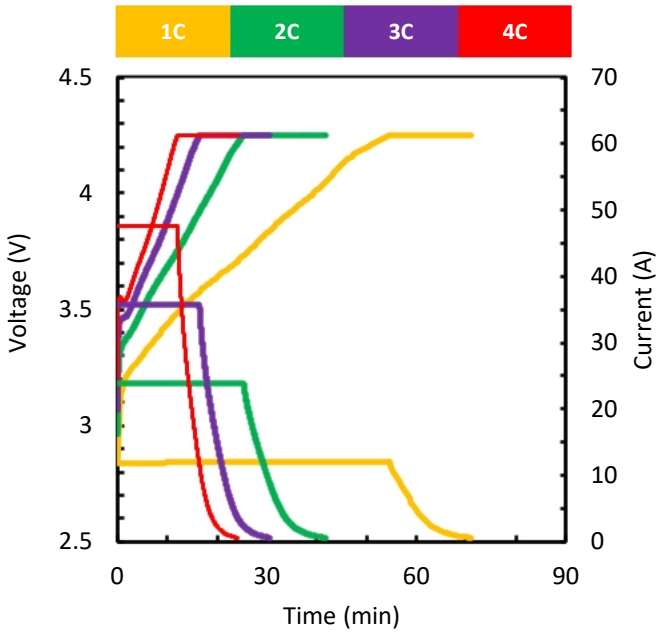
High/Low Temperature Discharge Capability

Charge: 1C CCCV with 0.05C cut off @ 25 °C
Discharge: 0.2C @ 60/45/25/0/-20/-30 °C



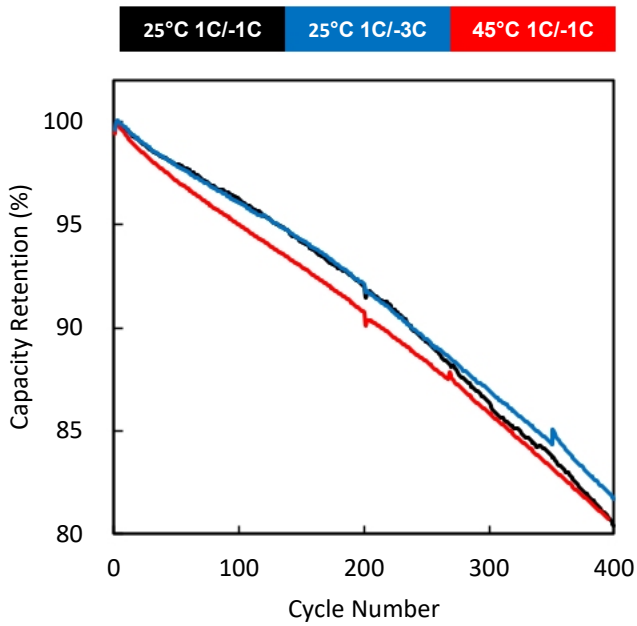
Charge Rate Profiles

Charge: 25 °C, 1C/2C/3C/4C CCCV w/ 0.05C cut off
Discharge: 25 °C, 0.2C



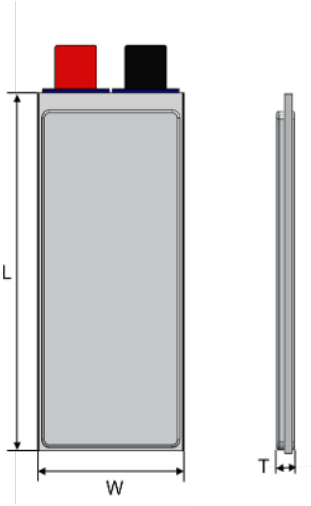
Cycle Life Performance

Charge: 1C CCCV with 0.05C cut off
Discharge: 1C or 3C



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H10E Energy Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	12.2 Ah
Energy	Typical	41.5 Wh
Cell Voltage	Nominal	3.4 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	2C
Discharge Rate	Maximum Continuous	3C
	Maximum Pulse @50% SoC, 25°C, 10s	5C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 10 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 20 mΩ
Weight		104.0 ± 2.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric@25°C, 100% DoD, C/5	400 Wh/kg
Cycle Life	+1C/-1C, 2.5-4.25V, 25°C, 80% SoH, 0 PSI	> 360 @25°C
Certification		UN38.3

DIMENSIONS		
Size	L	139 ± 1.0 mm
	W	59 ± 1.0 mm
	T @30% SOC	5.8 ± 0.3 mm

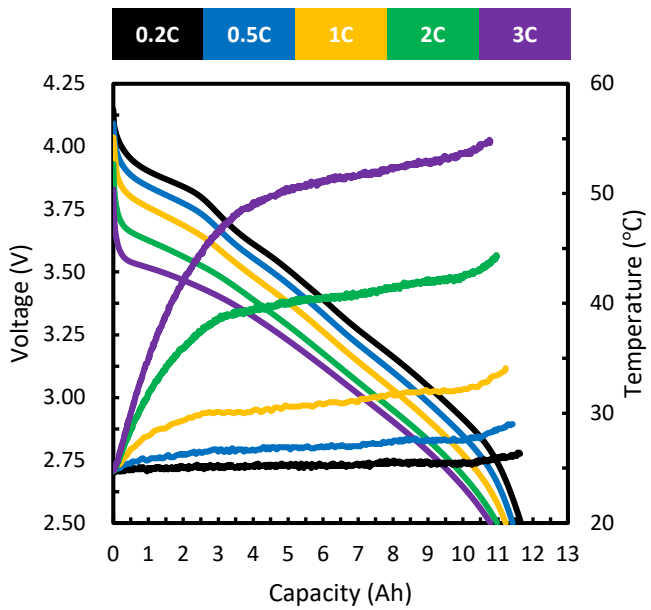
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H10E Energy Li-ion Cell

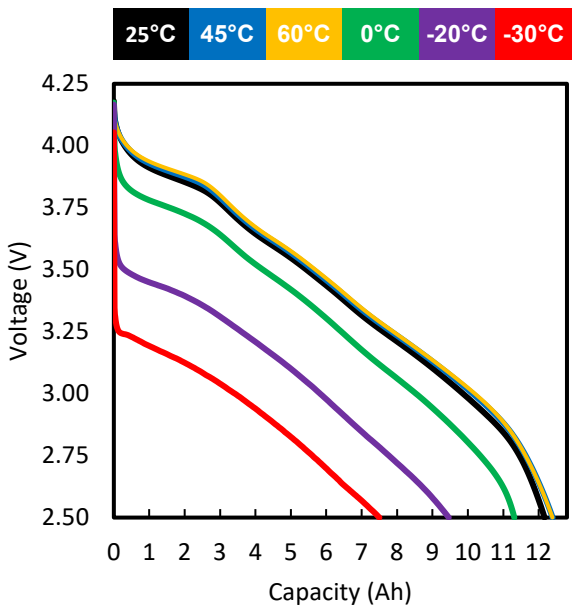
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.05C cut off
Discharge: 25 °C, 0.2C/0.5C/1C/2C/3C



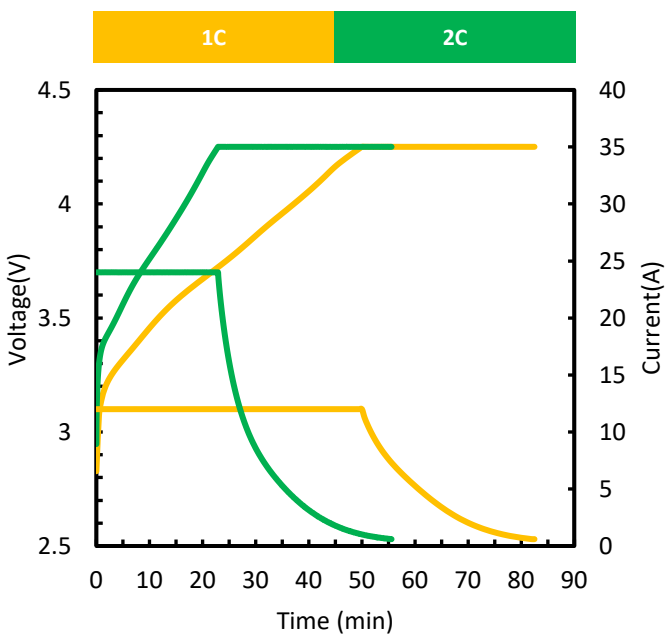
High/Low Temperature Discharge Capability

Charge: 1C CCCV with 0.05C cut off @ 25 °C
Discharge: 0.2C @ 60/45/25/0/-20/-30 °C



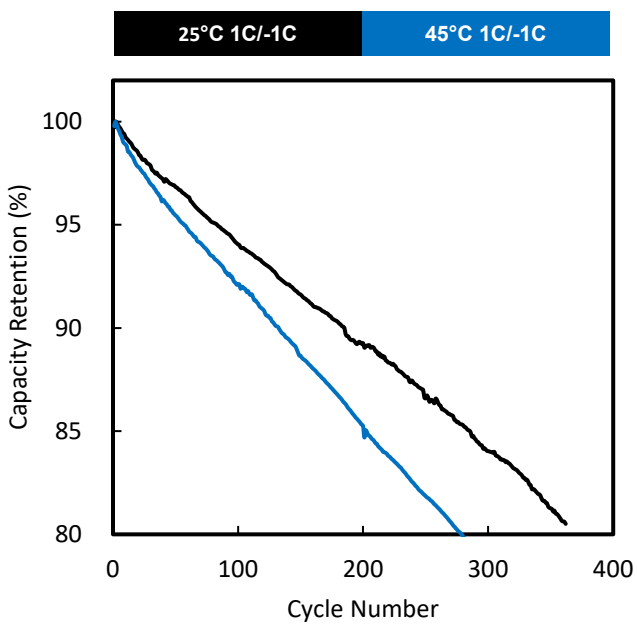
Charge Rate Profiles

Charge: 25 °C, 1C/2C CCCV w/ 0.05C cut off
Discharge: 25 °C, 0.2C



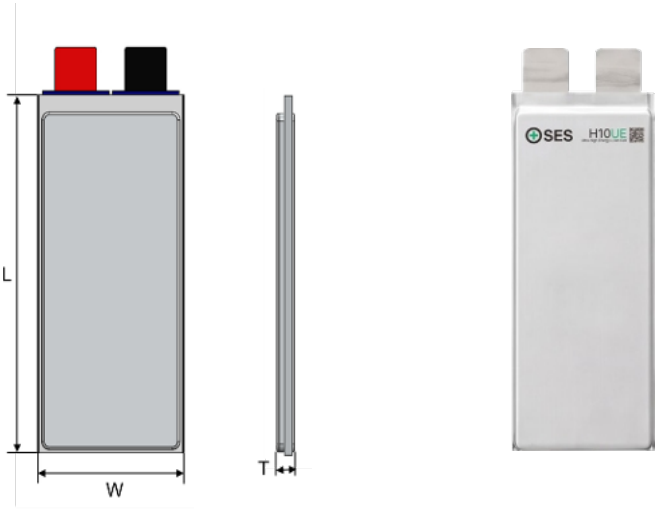
Cycle Life Performance

Charge: 1C CCCV with 0.05C cut off
Discharge: 1C



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H10UE Energy Li-ion Cell



M =metal P =power UE =ultra-high energy B =balanced

SPECIFICATIONS		
Capacity	Typical	11.4 Ah
Energy	Typical	39.0 Wh
Cell Voltage	Nominal	3.42 V
	Charge	4.3 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	2C
Discharge Rate	Maximum Continuous	1C
	Maximum Pulse @50% SoC, 25°C, 10s	4C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 8 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 20 mΩ
Weight		90.5 ± 2.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric@25°C, 100% DoD, 0.1C	430 Wh/kg
Cycle Life	+0.33C/-0.33C, 2.5-4.3V, 80%SOH, 30 PSI	> 150 @25°C
Certification		UN38.3

DIMENSIONS		
Size	L	139 ± 1.0 mm
	W	59 ± 1.0 mm
	T @30% SOC	5.1 ± 0.3 mm

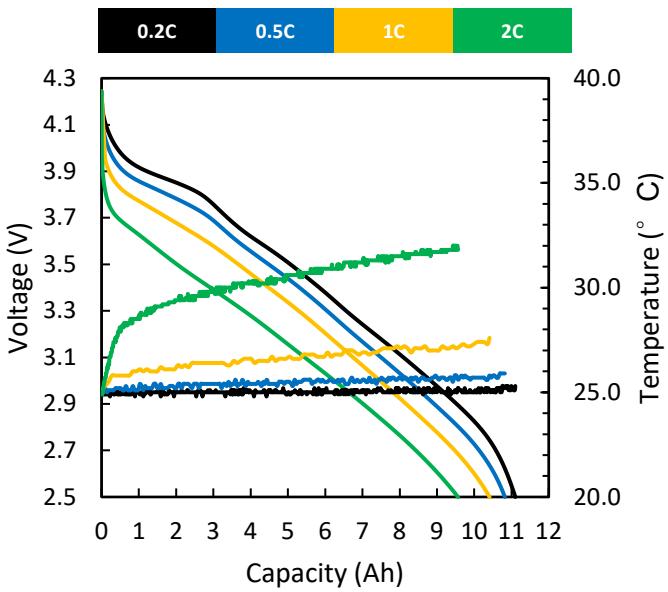
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H10UE Energy Li-ion Cell

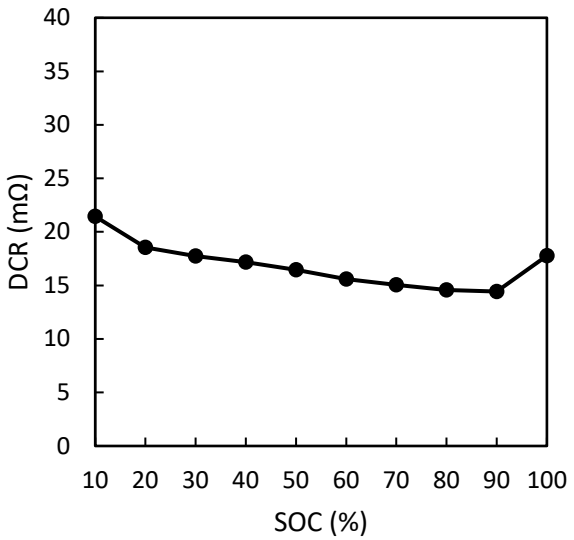
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.05C cut off
Discharge: 25 °C, 0.2C/0.5C/1C/2C



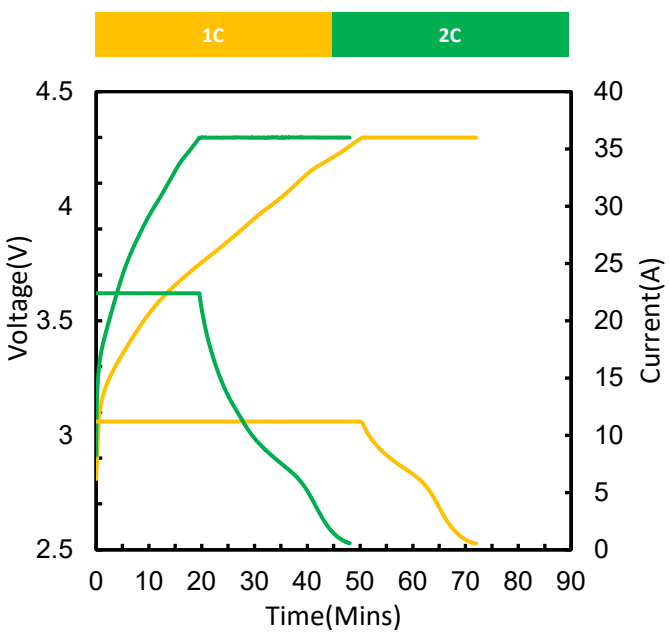
DCR vs SOC Profile

DCR Pulse: 25 °C, 3C 10s



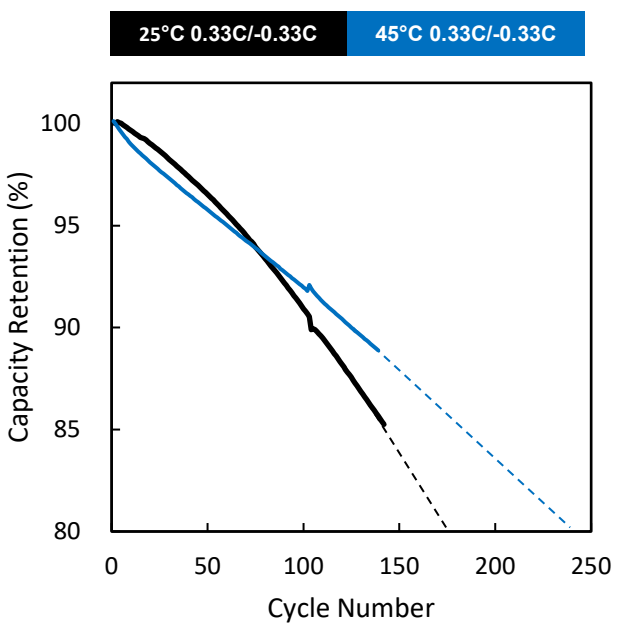
Charge Rate Profiles

Charge: : 25 °C, 1C/2C CCCV w/ 0.05C cut off
Discharge: 25 °C, 0.2C



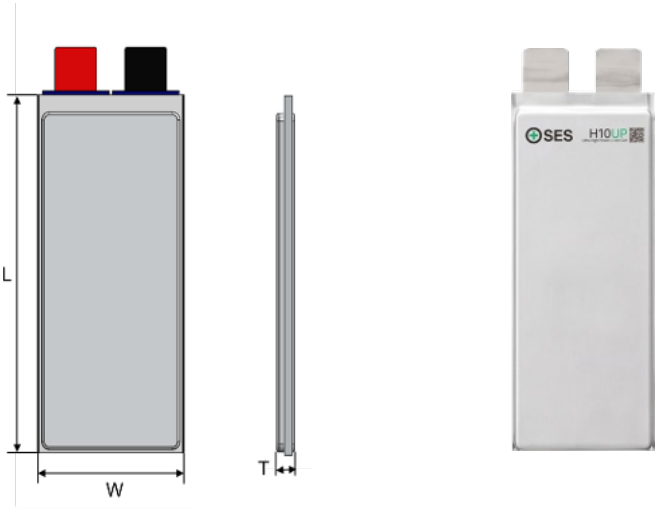
Cycle Life Performance

Charge: 0.33C CCCV with 0.05C cut off
Discharge: 0.33C



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H10UP Power Li-ion Cell



M =metal UP =ultra-high power E =energy B =balanced

SPECIFICATIONS		
Capacity	Typical	10.7 Ah
Energy	Typical	36.4 Wh
Cell Voltage	Nominal	3.4 V
	Charge	4.3 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	5C
Discharge Rate	Maximum Continuous	10C
	Maximum Pulse @50% SoC, 25°C, 10s	14C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 3 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 12 mΩ
Weight		103 ± 2.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric@25°C, 100% DoD, 0.1C	350 Wh/kg
Cycle Life	+1C/-5C, 2.5-4.25V, 80%SOH, 0 PSI	> 500 @25°C
Certification		UN38.3

DIMENSIONS		
Size	L	139 ± 1.0 mm
	W	59 ± 1.0 mm
	T @30% SOC	5.8 ± 0.3 mm

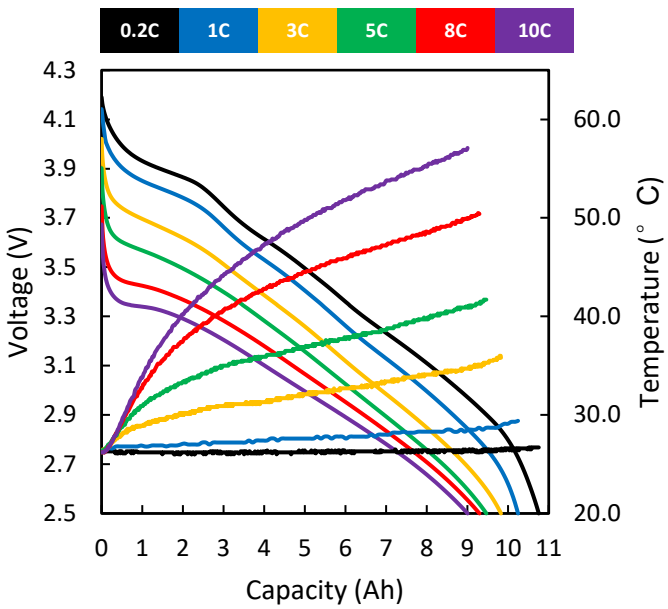
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H10UP Power Li-ion Cell

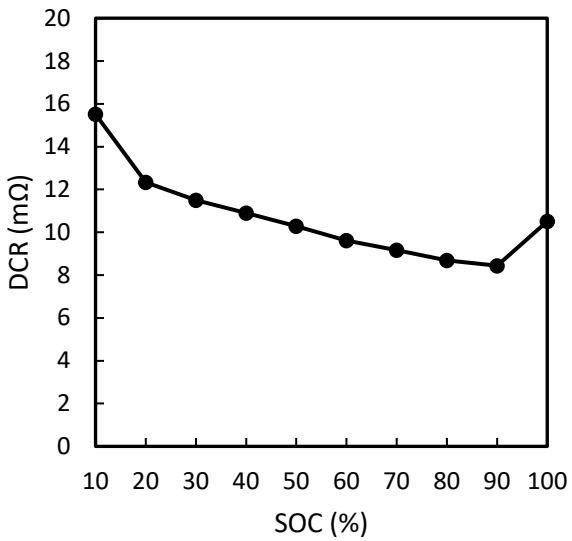
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.05C cut off
Discharge: 25 °C, 0.2C/1C/3C/5C/8C/10C



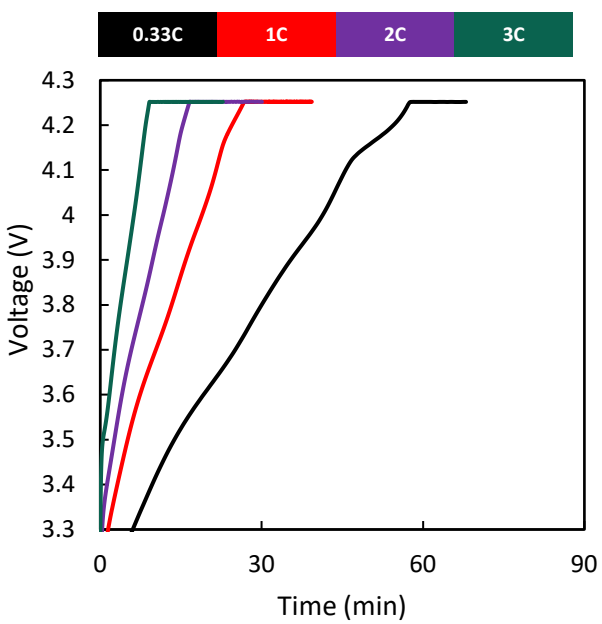
DCR vs SOC Profile

DCR Pulse: 25 °C, 3C 10s



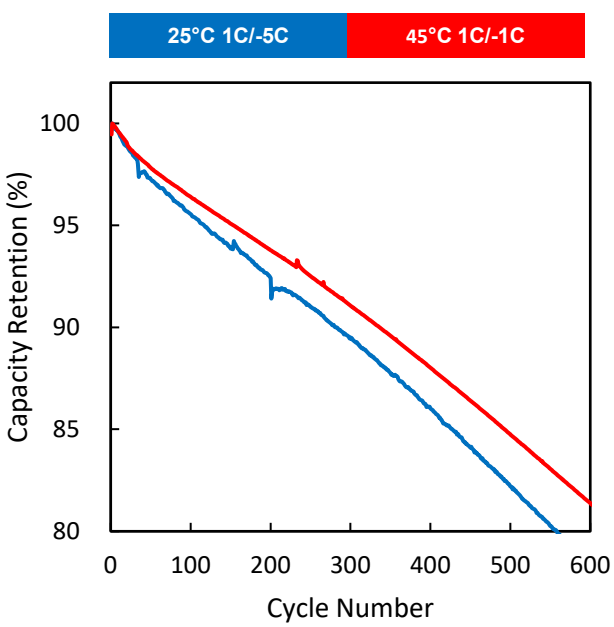
Charge Rate Profiles

Charge: : 25 °C, 1C/2C/3C/5C CCCV w/ 0.05C cut off
Discharge: 25 °C, 0.2C



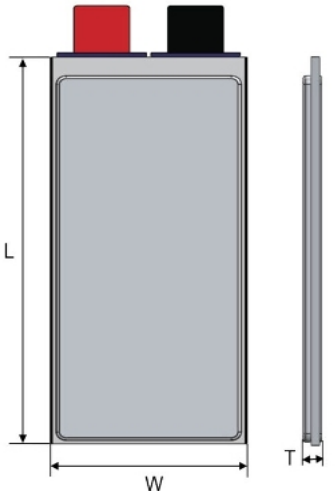
Cycle Life Performance

Charge: 1C CCCV with 0.05C cut off
Discharge: 1C or 5C



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H30P Power Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	33.6 Ah
Energy	Typical	118 Wh
Cell Voltage	Nominal	3.5 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	3C
Discharge Rate	Maximum Continuous	3C
	Maximum Pulse @50% SoC, 25°C, 30s	10C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHZ @30% SOC)	≤ 1.5 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 5 mΩ
Weight		328 ± 5.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric@25°C, 100% DoD, C/5	360 Wh/kg
Cycle Life	+0.5C/-3C, 2.5-4.25V, 80%SOH, 0 PSI	> 600 @ 25°C
Certification		UN38.3

DIMENSIONS		
Size	L	187.0 ± 1.0 mm
	W	87.0 ± 1.0 mm
	T (@30% SOC)	9.2 ± 0.3 mm

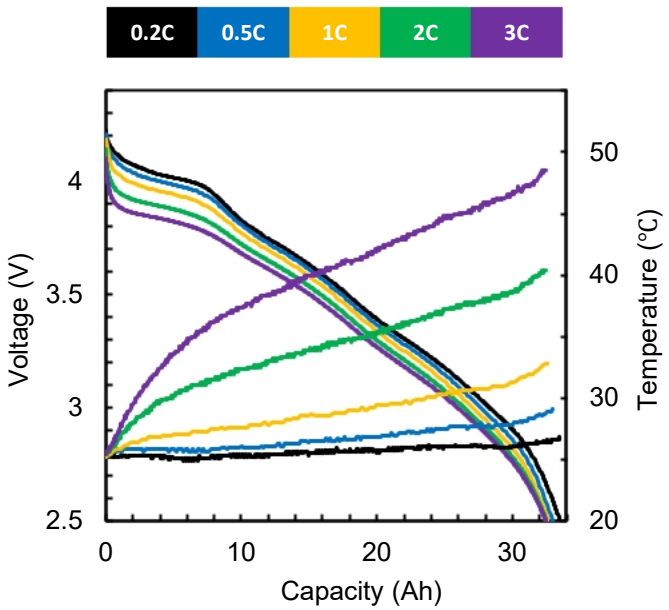
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H30P Power Li-ion Cell

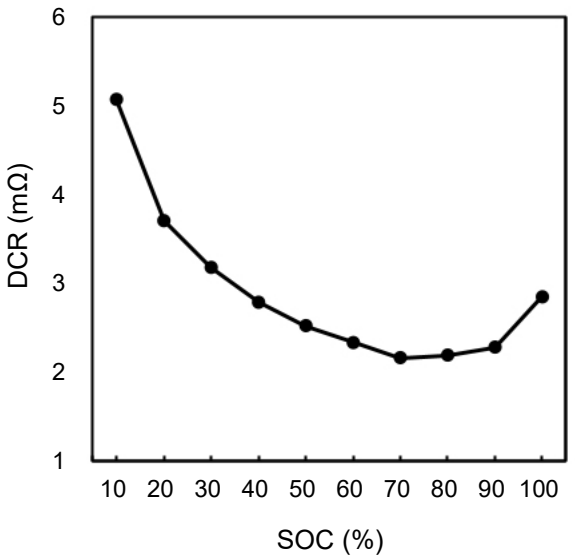
Discharge Rate Capability

Charge: 25 °C, 0.5C CCCV with 0.03C cut off
Discharge: 25 °C, 0.2C/0.5C/1C/2C/3C



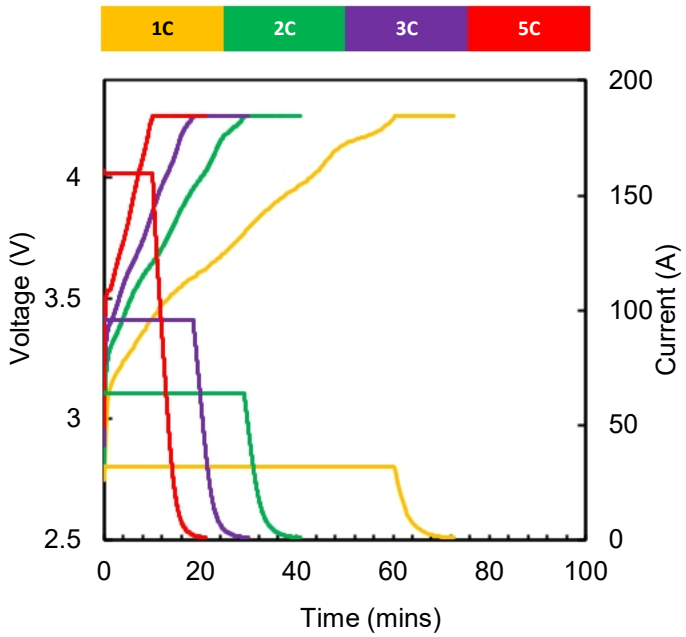
DCR vs. SOC

DCR Pulse: 3C 10 s



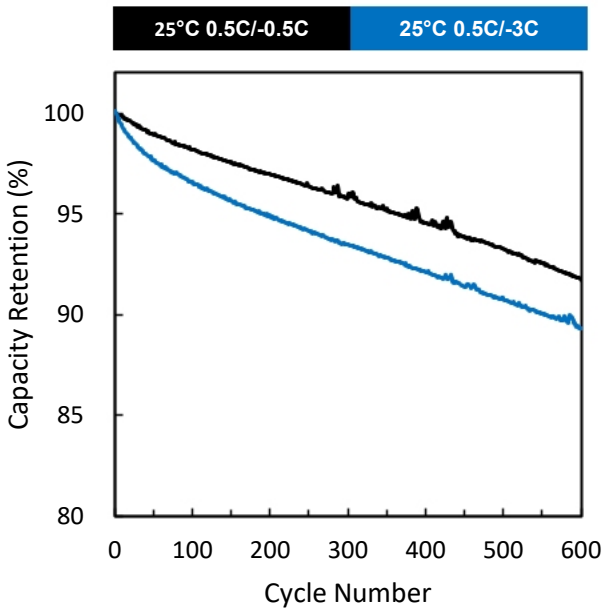
Charge Rate Profiles

Charge: 25 °C, 1C/2C/3C/5C CCCV with 0.03C cut off
Discharge: 25 °C, 0.2C



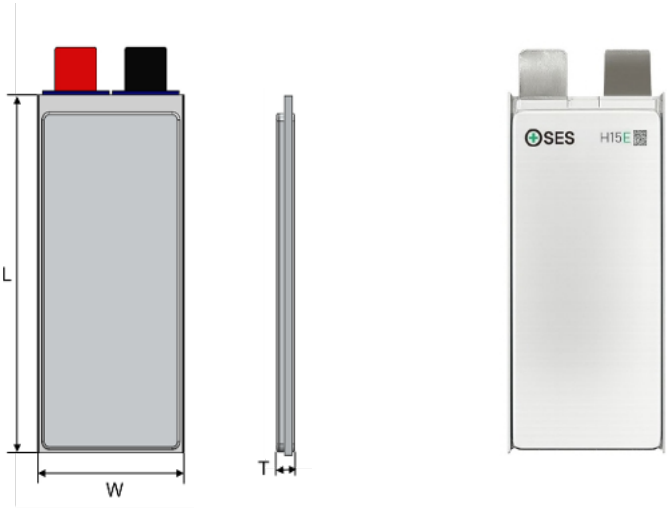
Cycle Life Performance

Charge: 0.5C CCCV with 0.03C cut off
Discharge: 0.5C or 3C



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H15E Energy Li-ion Cell



M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	15.7 Ah
Energy	Typical	53.4 Wh
Cell Voltage	Nominal	3.4 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	0.5C
	Maximum	1C
Discharge Rate	Maximum Continuous	3C
	Maximum Pulse @50% SoC, 25°C, 10s	5C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 5 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 15 mΩ
Weight		130.0 ± 3.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric@25°C, 100% DoD, C/5	410 Wh/kg
Cycle Life	+0.5C/-1.55C, 2.5-4.25V, 80%SOH, 0 PSI	> 300 @25°C

DIMENSIONS		
Size	L	139 ± 1.0 mm
	W	59 ± 1.0 mm
	T @30% SOC	6.9 ± 0.3 mm

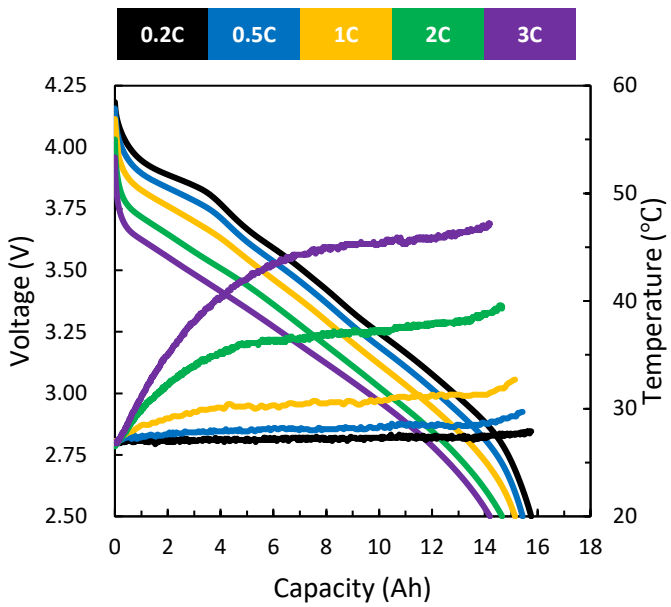
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H15E Energy Li-ion Cell

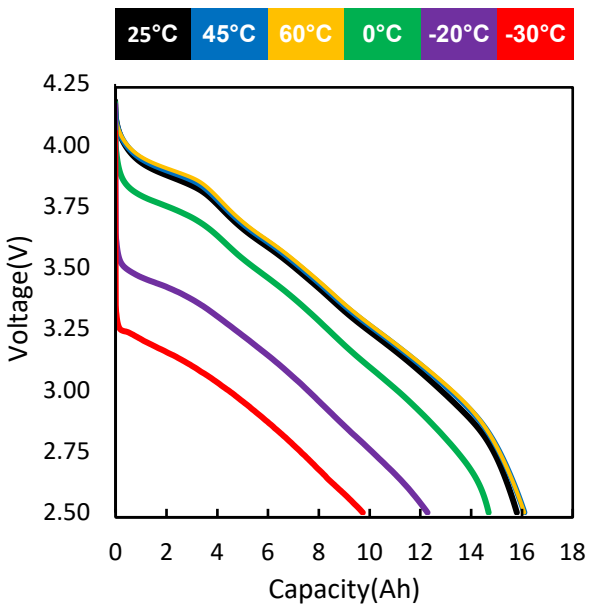
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.05C cut off
Discharge: 25 °C, 0.2C/0.5C/1C/2C/3C



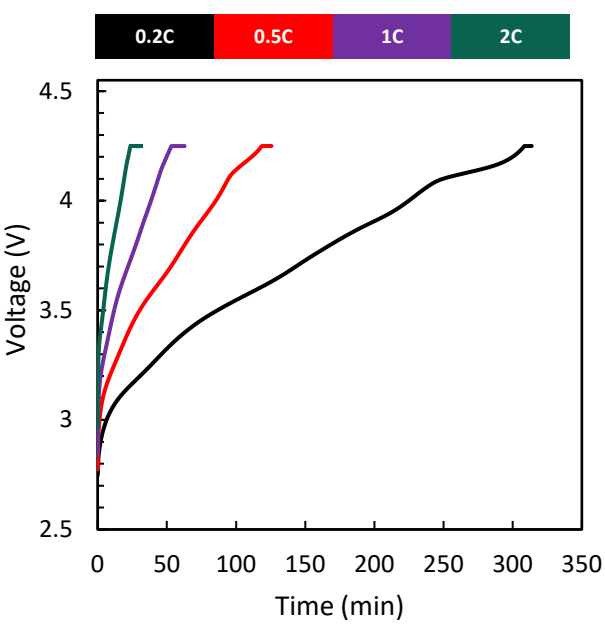
High/Low Temperature Discharge Capability

Charge: 1C CCCV with 0.05C cut off @ 25 °C
Discharge: 0.2C @ 60/45/25/0/-20/-30 °C



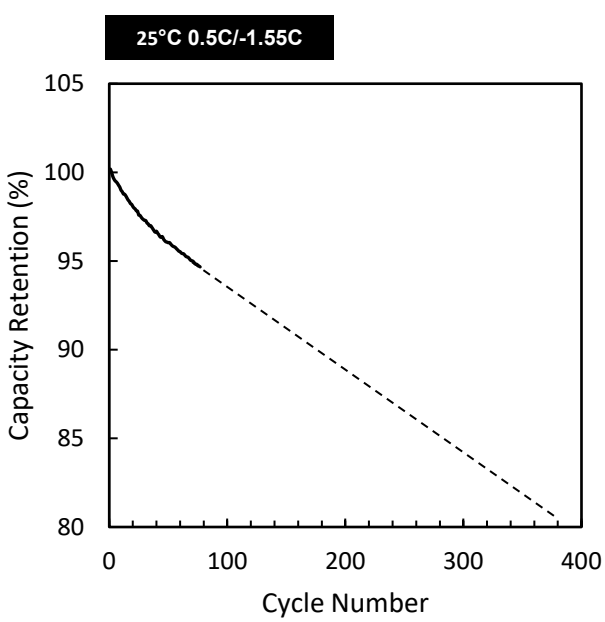
Charge Rate Profiles

Charge: 25 °C, 1C/2C CCCV w/ 0.05C cut off
Discharge: 25 °C, 0.2C



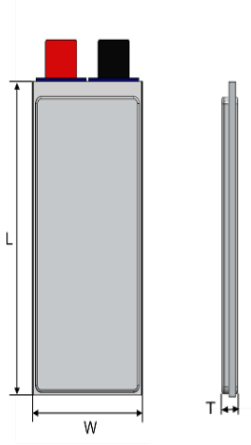
Cycle Life Performance

Charge: 0.5C CCCV with 0.05C cut off
Discharge: 1.55C



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H6P Power Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	6.0 Ah
Energy	Typical	20.8 Wh
Cell Voltage	Nominal	3.47 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	2C
Discharge Rate	Maximum Continuous	6C
	Maximum Pulse @ 50% SoC, 25°C, 30s	10C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @ 30 % SOC)	≤ 5 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 20 mΩ
Weight		62.0 ± 2.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric @25°C, 100% DoD	335 Wh/kg (C/5)
		303 Wh/kg (5C)
Cycle Life	+1C/-5C, 2.5-4.25V, 80%SOH, 0 PSI	> 600 @ 25°C
		> 300 @ 45°C
Certification		UN38.3

DIMENSIONS		
Size	L	120 ± 1.0 mm
	W	39 ± 1.0 mm
	T @30% SOC	6.2 ± 0.3 mm

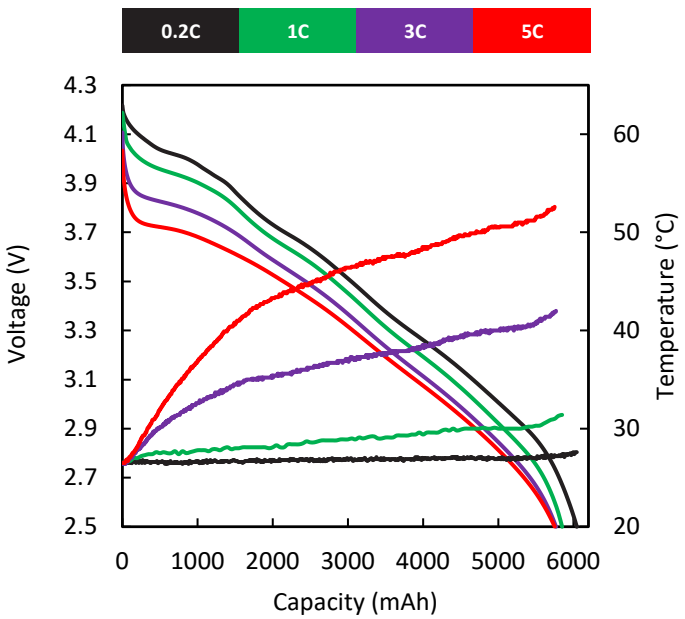
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H6P Power Li-ion Cell

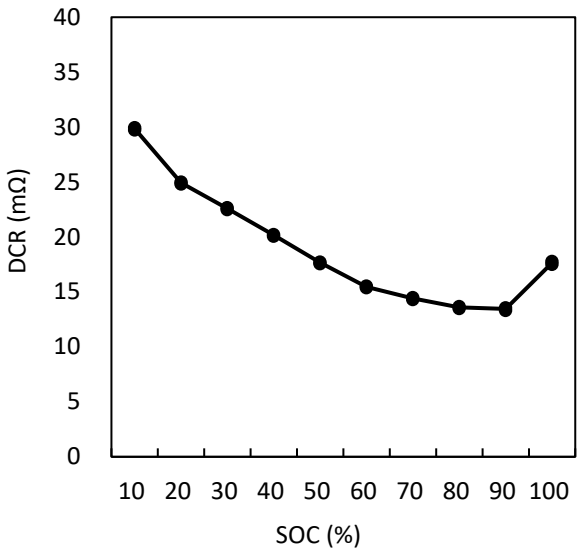
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.03C cut off
Discharge: 25 °C, 0.2C/1C/3C/5C



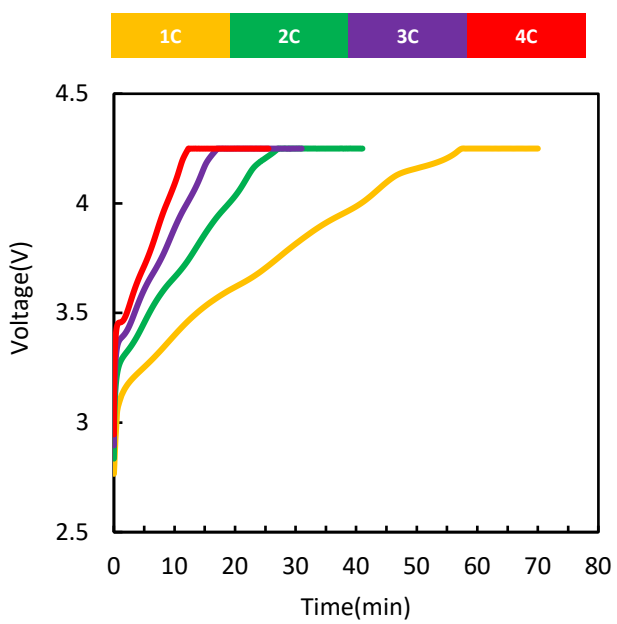
DCR vs SOC Profile

DCR Pulse: 25 °C, 3C 10s



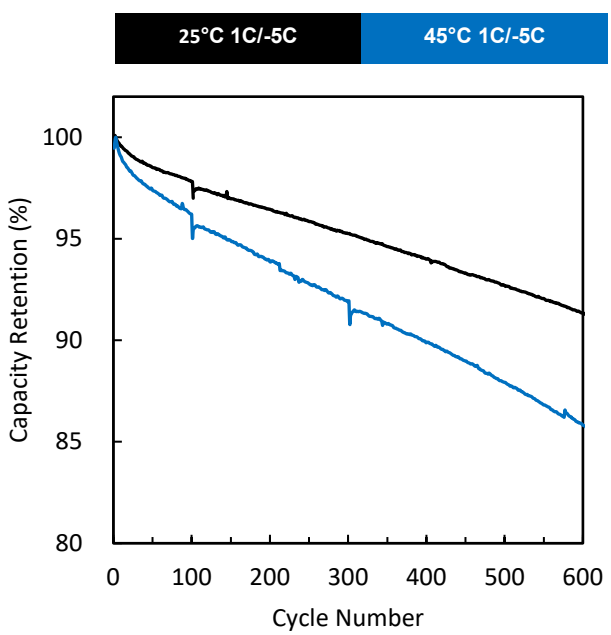
Charge Rate Profiles

Charge: : 25 °C, 1C/2C CCCV w/ 0.05C cut off
Discharge: 25 °C, 0.2C



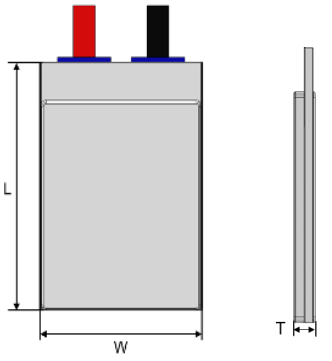
Cycle Life Performance

Charge: 1C CCCV with 0.03C cut off
Discharge: 5C



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H4B Balanced Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	3.9 Ah
Energy	Typical	13.2 Wh
Cell Voltage	Nominal	3.4 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	4C
Discharge Rate	Maximum Continuous	5C
	Maximum Pulse @50% SoC, 25°C, 30s	8C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 9 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 40 mΩ
Weight		36.3 ± 1.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric @25°C, 100% DoD, C/5	365 Wh/kg
Cycle Life	+1C/-3C, 2.5-4.25V, 80%SOH, 0 PSI	> 500 @ 25°C
Certification		UN38.3

DIMENSIONS		
Size	L	71.5 ± 1.0 mm
	W	48.5 ± 0.5 mm
	T @30% SOC	6.0 ± 0.2 mm

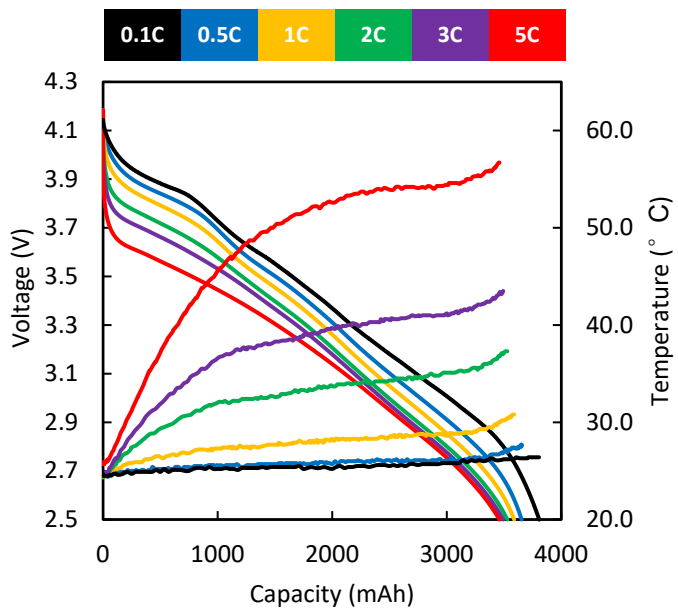
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H4B Balanced Li-ion Cell

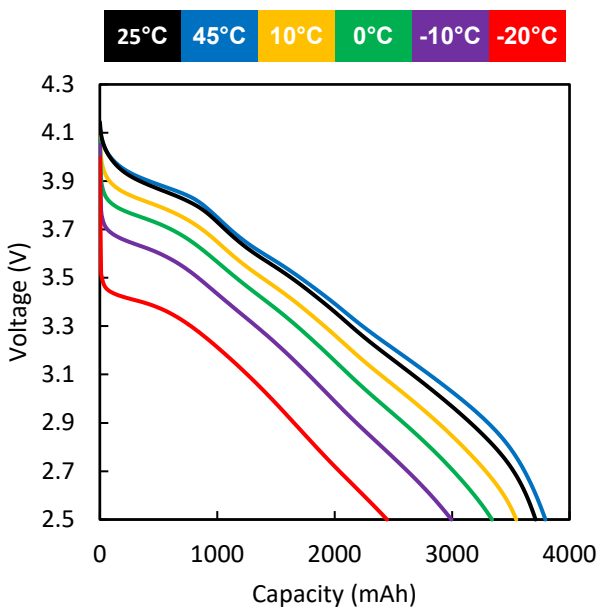
Discharge Rate Capability

Charge: 25 °C, 0.5C CCCV with 0.05C cut off
Discharge: 25 °C, 0.1C/0.5C/1C/2C/3C/5C



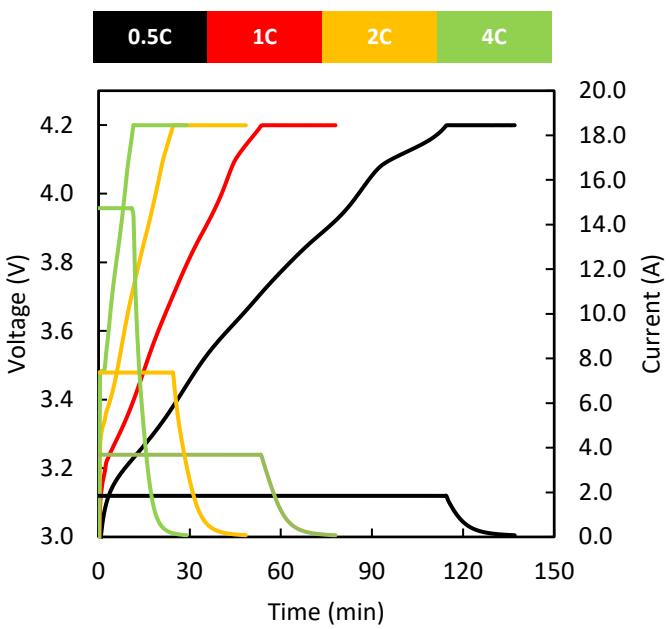
High/Low Temperature Discharge Capability

Charge: 1C CCCV with 0.05C cut off @ 25 °C
Discharge: 0.2C @ 45/25/10/0/-10/-20 °C



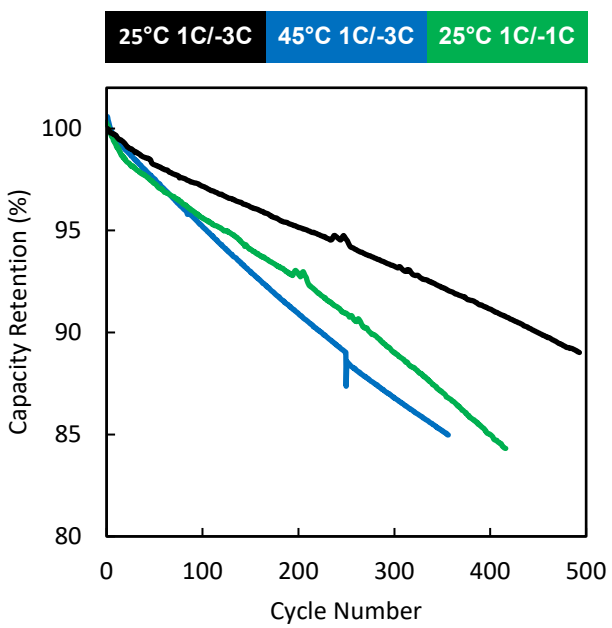
Charge Rate Profiles

Charge: 25 °C, 0.5C/1C/2C/4C CCCV w/ 0.05C cut off
Discharge: 25 °C, 0.5C



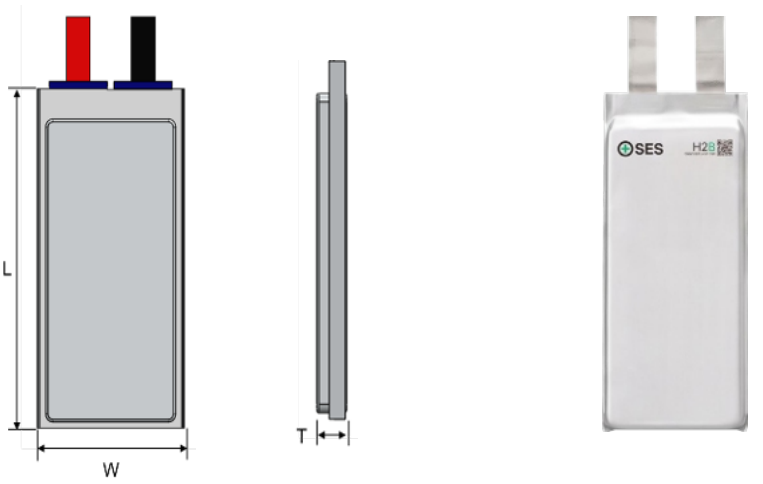
Cycle Life Performance

Charge: 1C CCCV with 0.05C cut off
Discharge: 1C or 3C



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H2B Balanced Li-ion Cell



M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	2.3 Ah
Energy	Typical	7.9 Wh
Cell Voltage	Nominal	3.45 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
Discharge Rate	Maximum Continuous	3C
	Maximum Pulse @50% SoC, 25°C, 30s	5C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤10 mΩ
	DCIR (50%SOC, 1C/10s)	≤ 45 mΩ
Weight		22.5 ± 1.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric @25°C, 100% DoD, C/5	350 Wh/kg
Cycle Life	+1C/-2C, 2.5-4.25V, 80%SOH, 0 PSI	>500 @ 25°C
		>500 @ 45°C
Certification		UN38.3

DIMENSIONS		
Size	L	63 ± 1.0 mm
	W	30 ± 0.5 mm
	T (@30% SOC)	6.2 ± 0.2 mm

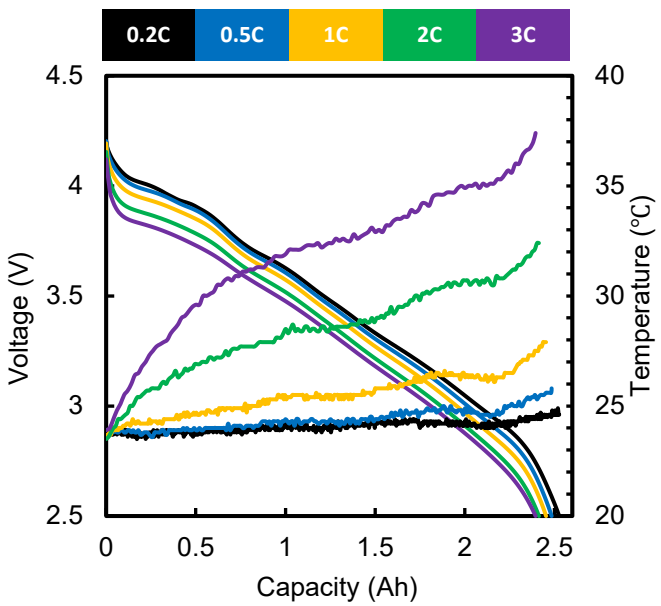
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H2B Balanced Li-ion Cell

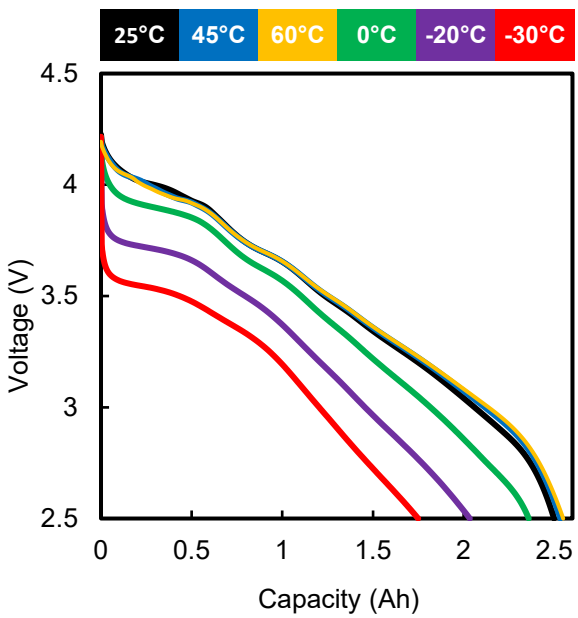
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.03C cut off
Discharge: 25 °C, 0.2C/0.5C/1C/2C/3C



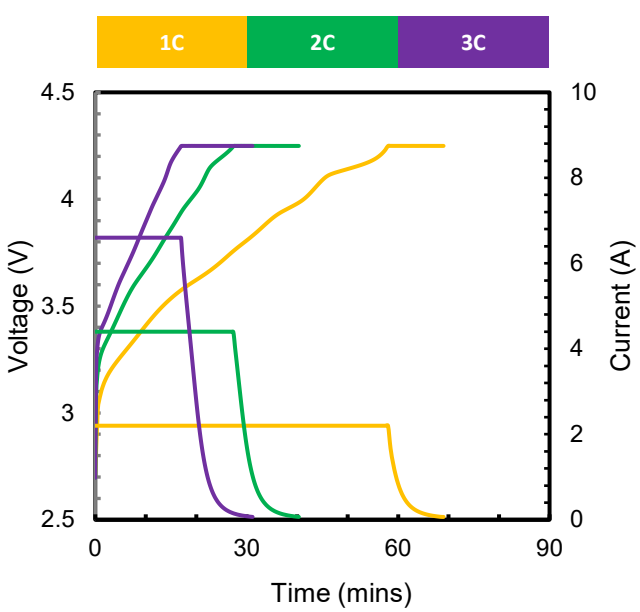
High/Low Temperature Discharge Capability

Charge: 1C CCCV with 0.05C cut off @ 25 °C
Discharge: 0.2C @ 60/45/25/0/-20/-30 °C



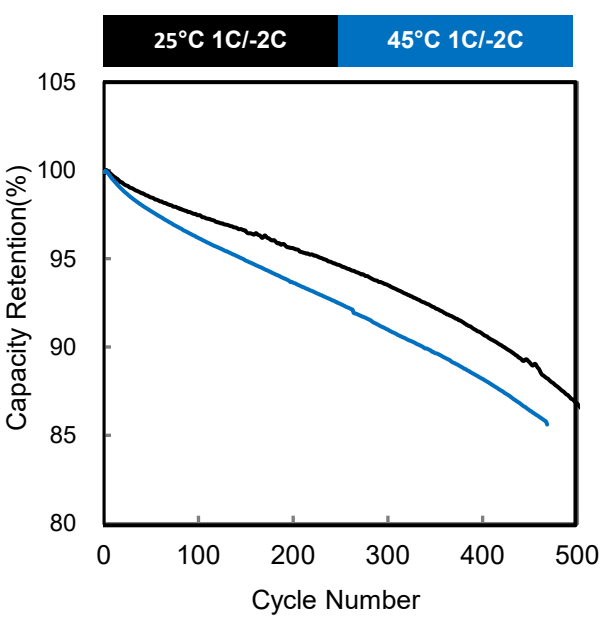
Charge Rate Profiles

Charge: 25 °C, 1C/2C/3C CCCV w/ 0.03C cut off
Discharge: 25 °C, 0.2C



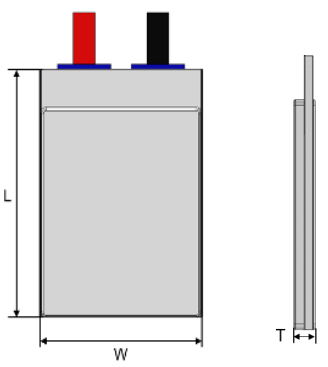
Cycle Life Performance

Charge: 1C CCCV with 0.03C cut off
Discharge: 2C



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H4M Li-Metal Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	4.2 Ah
Energy	Typical	16.0 Wh
Cell Voltage	Nominal	3.82 V
	Charge	4.3 V
	Discharge	2.5 V
Charge Rate	Typical	C/3
Discharge Rate	Maximum Continuous	7C
	Maximum Pulse @50% SoC, 25°C, 30s	15C
Temperature	Discharge	−30 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 6 mΩ
	DCIR (50%SOC, 1C/10s)	≤ 15 mΩ
Weight		43.0 ± 1.0 g
Packaging		Pouch
Chemistry		NMC/Li Metal
Energy Density	Gravimetric@25°C, 100%DoD, C/5	375 Wh/kg
Cycle Life	+0.33C/-0.33C, 2.5-4.3V, 80%SOH, 150 PSI	400 @ 25°C
	+0.2C/-1C, 2.5-4.3V, 80%SOH, 150 PSI	700 @ 25°C
Certification		UN38.3

DIMENSIONS		
Size	L	71.5 ± 1.0 mm
	W	48.5 ± 0.5 mm
	T (@30% SOC)	6.5 ± 0.2 mm

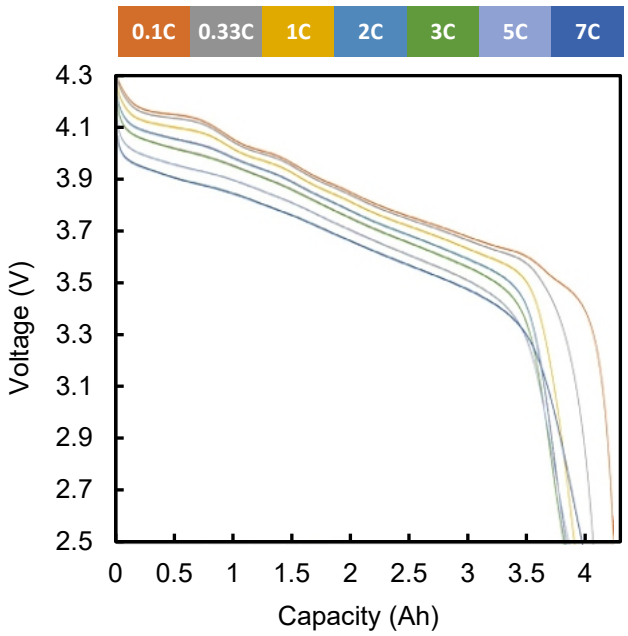
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H4M Li-Metal Cell

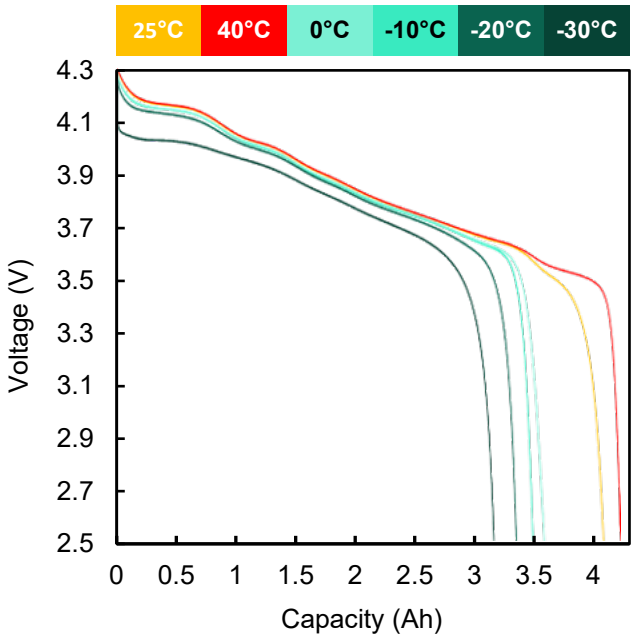
Discharge Rate Capability

Charge: 25 °C, 0.33C CCCV with 0.05C cut off
Discharge: 25 °C, 0.1C/0.33C/1C/2C/3C/5C/7C
Pressure: 150 psi



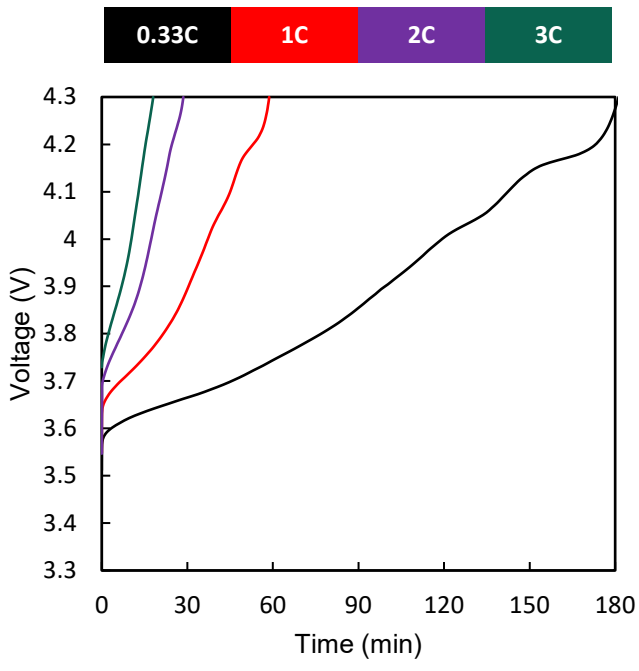
High/Low Temperature Discharge Capability

Charge: 0.33C CCCV with 0.05C cut off @ 25 °C
Discharge: 0.33C @ 40/25/0/-10/-20/-30 °C
Pressure: 150 psi



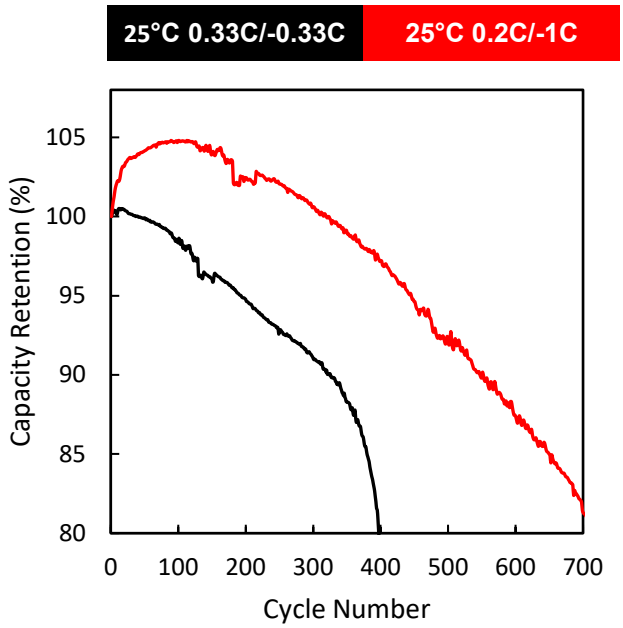
Charge Rate Profiles

Charge: 25 °C, 0.33C/1C/2C/3C
Discharge: 25 °C, 1C
Pressure: 150 psi



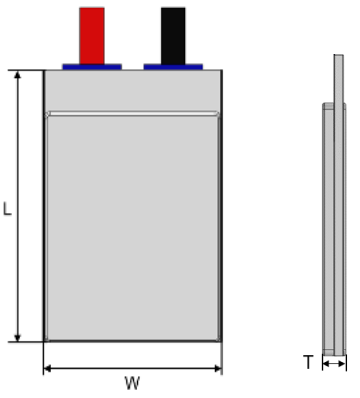
Cycle Life Performance

Charge: 0.33C or 0.2C CCCV with 0.05C cut off
Discharge: 0.33C or 1C
Pressure: 150 psi



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H6AF Anode-Free Li-Metal Cell





AF =anode free P =power E =energy B =balanced

SPECIFICATIONS		
Capacity	Typical	6.3 Ah
Energy	Typical	24.3 Wh
Cell Voltage	Nominal	3.85 V
	Charge	4.5 V
	Discharge	2.5 V
Charge Rate	Typical	C/5
Discharge Rate	Maximum Continuous	7C
	Maximum Pulse @ 50% SoC, 25°C, 30s	15C
Temperature	Discharge	−30 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR (1kHz @30%SOC)	≤ 6 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 20 mΩ
Weight		46.0 ± 1.0 g
Packaging		Pouch
Chemistry		NMC/Anode Free
Energy Density	Gravimetric@25°C, 100%DoD, C/10	525 Wh/kg
Cycle Life	+0.2C/-1C, 2.5-4.5V, 80%SOH, 150 PSI	>50 @ 25°C
	+0.2C/-1C, 2.5-4.5V, 80%SOH, 0 PSI	>10 @ 25°C
Certification		UN38.3

DIMENSIONS		
Size	L	71.5 ± 1.0 mm
	W	48.5 ± 0.5 mm
	T @0% SOC	6.2 ± 0.2 mm

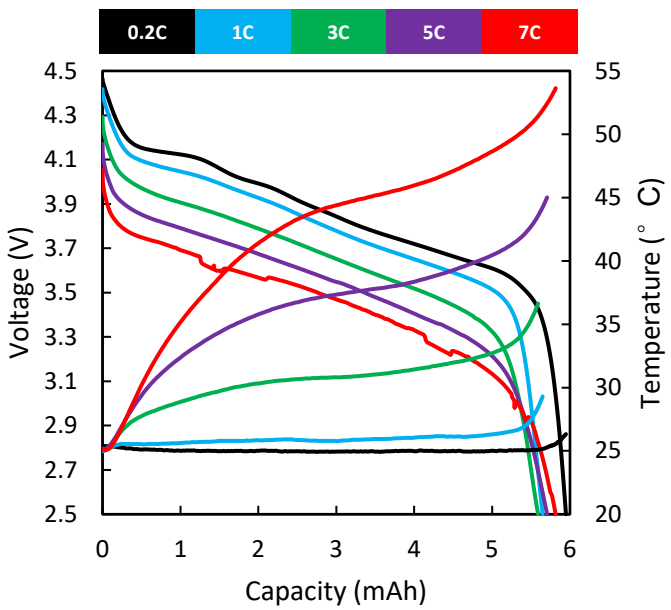
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H6AF Anode-Free Li-Metal Cell

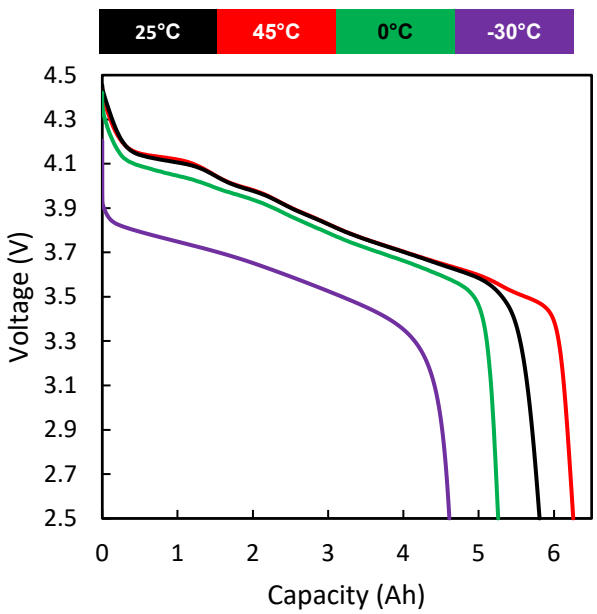
Discharge Rate Capability

Charge: 25 ° C, 0.33C CCCV with 0.05C cut off
Discharge: 25 ° C, 0.2C/1C/3C/5C/7C
Pressure: 150 psi



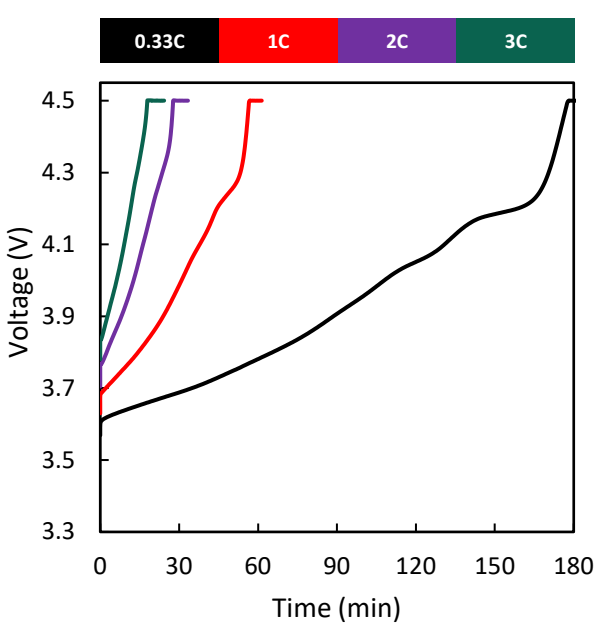
High/Low Temperature Discharge Capability

Charge: 0.33C CCCV with 0.05C cut off @ 25 ° C
Discharge: 0.33C @ 40/25/0/-10/-20/-30 ° C
Pressure: 150 psi



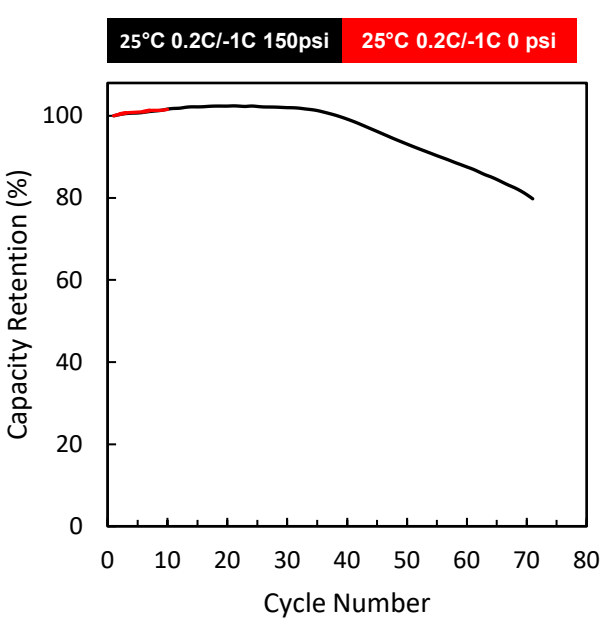
Charge Rate Profiles

Charge: 25 ° C, 0.33C/1C/2C/3C
Discharge: 25 ° C, 1C
Pressure: 150 psi



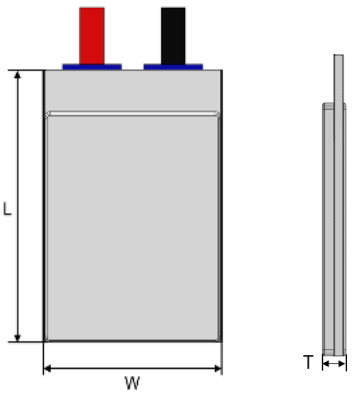
Cycle Life Performance

Charge: 0.2C CCCV with 0.05C cut off
Discharge: 1C
Pressure: 0 or 150 psi



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H4AF Anode-Free Li-Metal Cell





AF=anode free P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	4.1 Ah
Energy	Typical	15.7 Wh
Cell Voltage	Nominal	3.82 V
	Charge	4.3 V
	Discharge	2.5 V
Charge Rate	Typical	C/5
Discharge Rate	Maximum Continuous	12C
	Maximum Pulse @ 50% SoC, 25°C, 30s	20C
Temperature	Discharge	−30 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR (1kHz @30%SOC)	≤ 10 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 20 mΩ
Weight		34.9 ± 1.0 g
Packaging		Pouch
Chemistry		NMC/Anode Free
Energy Density	Gravimetric@25°C, 100%DoD, C/5	450 Wh/kg
Cycle Life	+0.2C/-1C, 2.5-4.3V, 80%SOH, 150 PSI	>100 @ 25°C
	+0.2C/-1C, 2.5-4.3V, 80%SOH, 0 PSI	>10 @ 25°C
Certification		UN38.3

DIMENSIONS		
Size	L	71.5 ± 1.0 mm
	W	48.5 ± 0.5 mm
	T @0% SOC	4.4 ± 0.2 mm

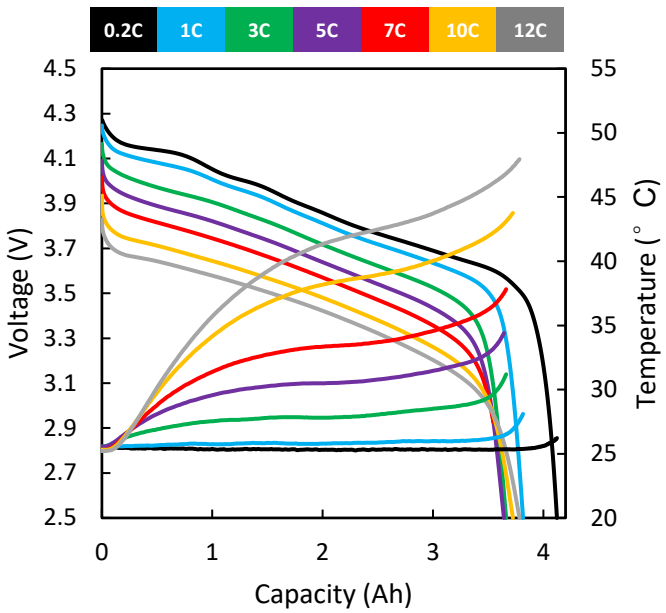
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H4AF Anode-Free Li-Metal Cell

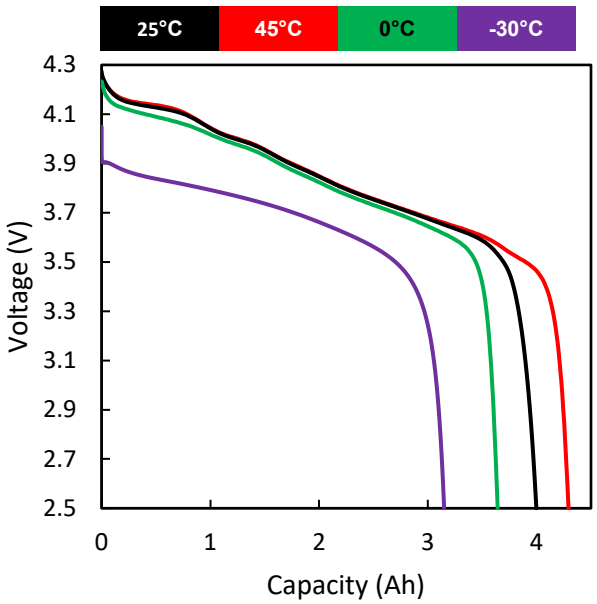
Discharge Rate Capability

Charge: 25 ° C, 0.33C CCCV with 0.05C cut off
Discharge: 25 ° C, 0.2C/1C/3C/5C/7C/10C/12C
Pressure: 150 psi



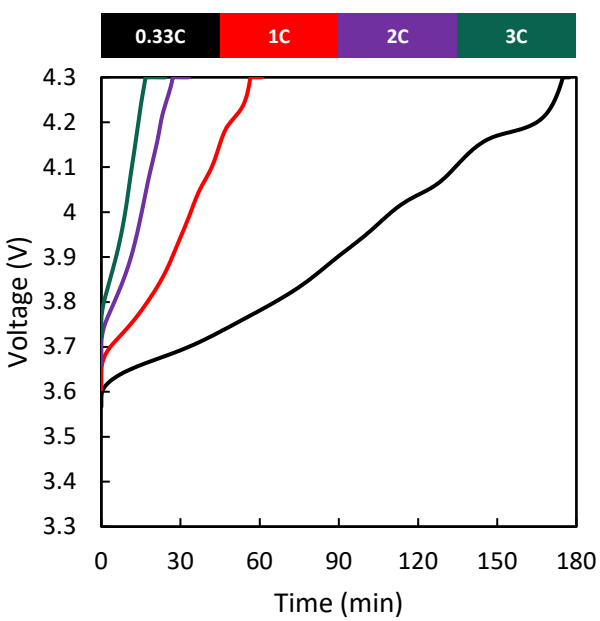
High/Low Temperature Discharge Capability

Charge: 0.33C CCCV with 0.05C cut off @ 25 ° C
Discharge: 0.33C @ 45/25/0/-30 ° C
Pressure: 150 psi



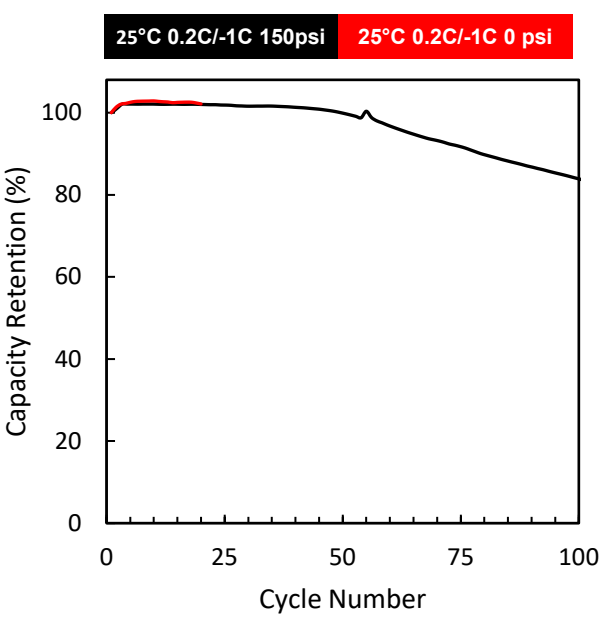
Charge Rate Profiles

Charge: 25 ° C, 0.33C/1C/2C/3C
Discharge: 25 ° C, 1C
Pressure: 150 psi



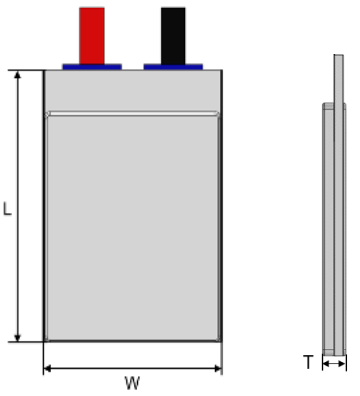
Cycle Life Performance

Charge: 0.2C CCCV with 0.05C cut off
Discharge: 1C
Pressure: 0 or 150 psi



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H3AF Anode-Free Li-Metal Cell





AF=anode free P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	3.0 Ah
Energy	Typical	11.5 Wh
Cell Voltage	Nominal	3.82 V
	Charge	4.3 V
	Discharge	2.5 V
Charge Rate	Typical	C/5
Discharge Rate	Maximum Continuous	20C
	Maximum Pulse @ 100% SoC, 25°C, 10s	32C
Temperature	Discharge	−30 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR (1kHz @30%SOC)	≤ 12 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 25 mΩ
Weight		26.9 ± 1.0 g
Packaging		Pouch
Chemistry		NMC/Anode Free
Energy Density	Gravimetric@25°C, 100%DoD, C/5	425 Wh/kg
Cycle Life	+0.2C/-1C, 2.5-4.3V, 80%SOH, 150 PSI	>100 @ 25°C
	+0.2C/-1C, 2.5-4.3V, 80%SOH, 0 PSI	>10 @ 25°C
Certification		UN38.3

DIMENSIONS		
Size	L	71.5 ± 1.0 mm
	W	48.5 ± 0.5 mm
	T (@0% SOC)	3.4 ± 0.2 mm

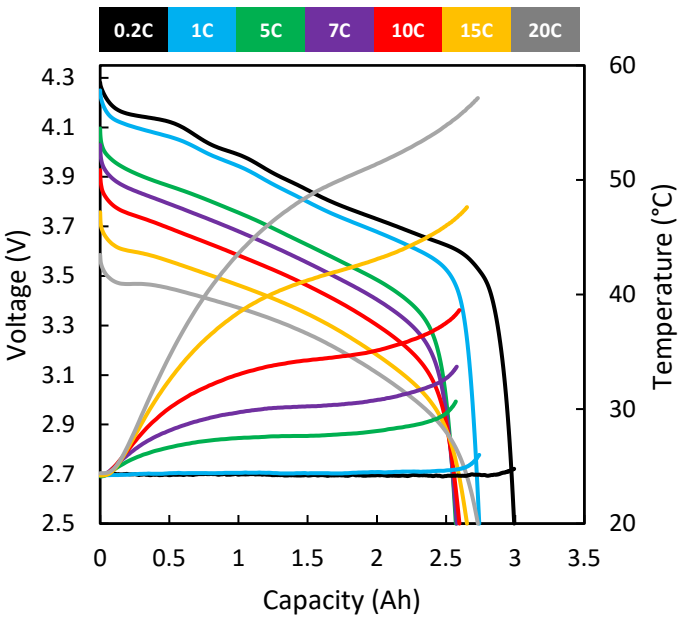
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H3AF Anode-Free Li-Metal Cell

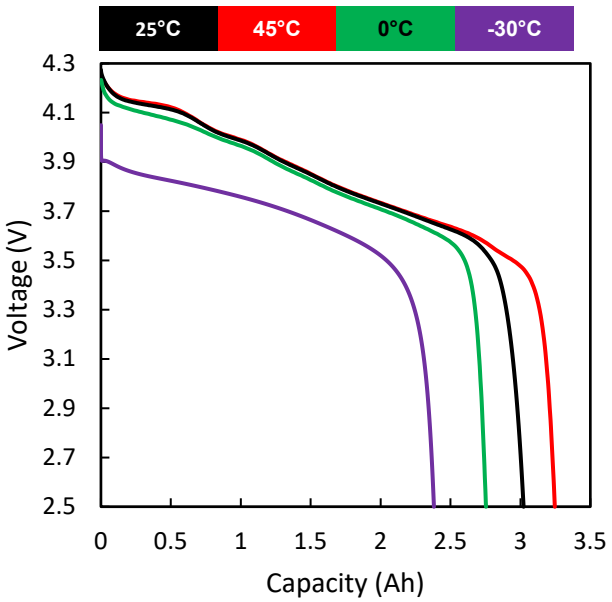
Discharge Rate Capability

Charge: 25 °C, 0.33C CCCV with 0.05C cut off
Discharge: 25 °C, 0.2C/1C/5C/7C/10C/15C/20C to 2.5V
Pressure: 150 psi



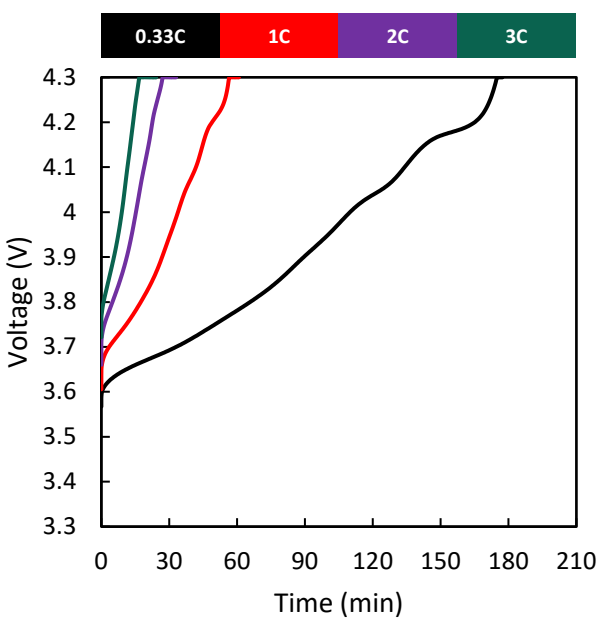
High/Low Temperature Discharge Capability

Charge: 0.33C CCCV with 0.05C cut off @ 25 ° C
Discharge: 0.33C @ 45/25/0/-30 ° C
Pressure: 150 psi



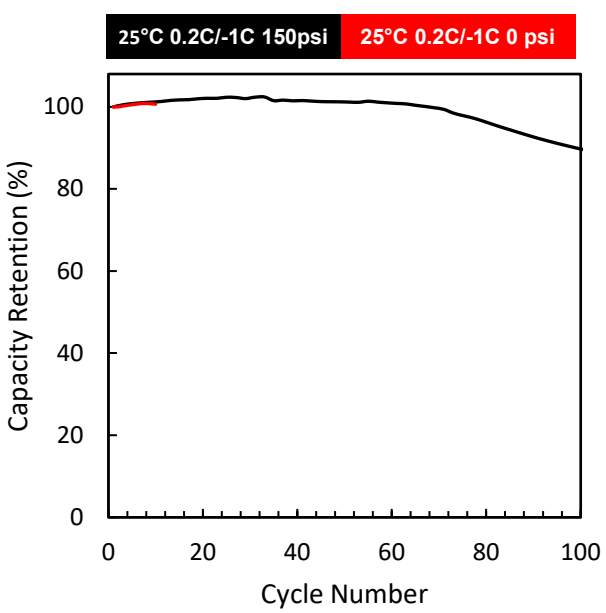
Charge Rate Profiles

Charge: 25 ° C, 0.33C/1C/2C/3C
Discharge: 25 ° C, 1C
Pressure: 150 psi



Cycle Life Performance

Charge: 0.2C CCCV with 0.05C cut off
Discharge: 1C
Pressure: 0 or 150 psi



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2170-55P Power Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	5.5 Ah
Energy	Typical	19.6 Wh
Cell Voltage	Nominal	3.56 V
	Charge	4.2 V
	Discharge	2.5 V
Charge Rate	Typical	0.5C
	Maximum	2C
Discharge Rate	Maximum Continuous	3C
	Maximum Pulse @50% SoC, 25°C, 30s	8C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 15 mΩ
	DCIR (50%SOC, 1C/10s)	≤ 25 mΩ
Weight		70 ± 2.0 g
Packaging		Cylindrical
Chemistry		NMC/C+Si
Energy Density	Gravimetric @25°C, 100% DoD, C/5	280 Wh/kg
Cycle Life	+1C/-1C, 2.75-4.2V,25°C, 80% SoH	750
	+1C/-3C, 2.75-4.2V,25°C, 80% SoH	500
Certification		UN38.3

DIMENSIONS		
Size	D	21.2 ± 0.2 mm
	L	70.5 ± 0.2 mm

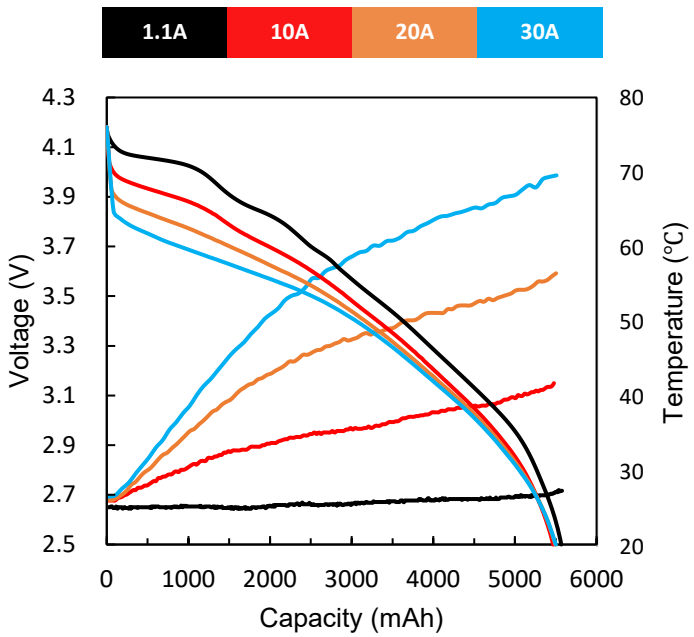
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2170-55P Power Li-ion Cell

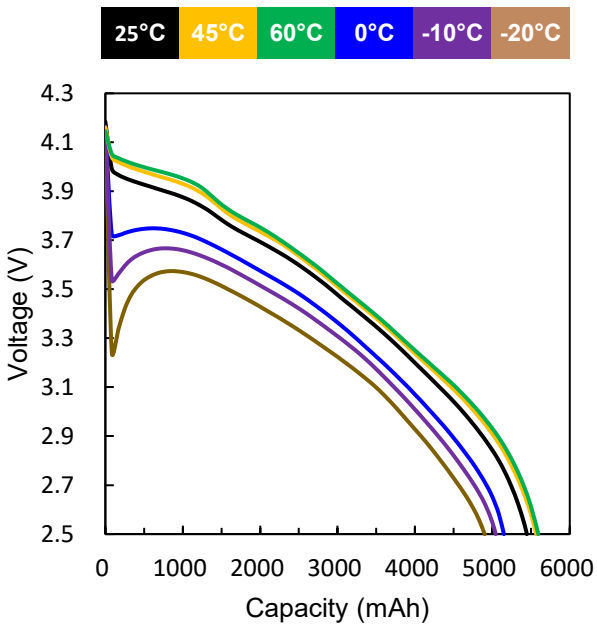
Discharge Rate Capability

Charge: 25 °C, 0.5C CCCV with 0.02C cut off
Discharge: 25 °C, 1.1A/10A/20A/30A



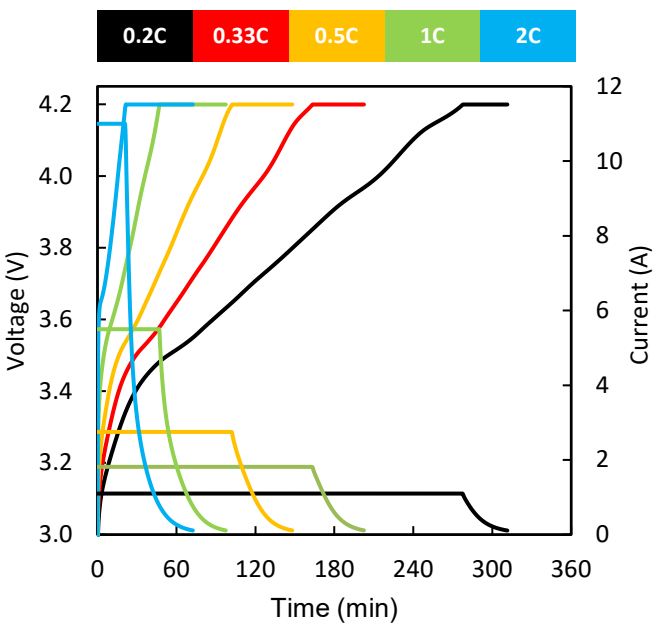
High/Low Temperature Discharge Capability

Charge: 0.5C CCCV with 0.02C cut off @ 25 °C
Discharge: 0.2C @ 60/45/25/0/-10/-20 °C



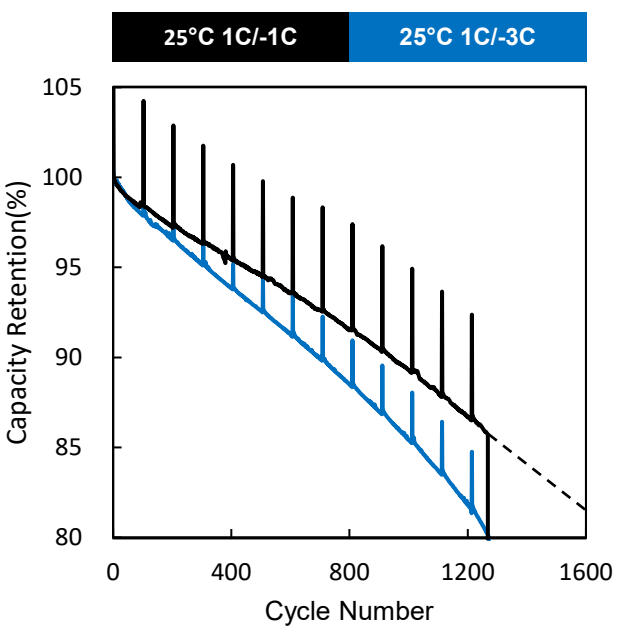
Charge Rate Profiles

Charge: 25 °C, 0.2C/0.33C/0.5C/1C/2C CCCV w/0.02C cutoff
Discharge: 25 °C, 1C



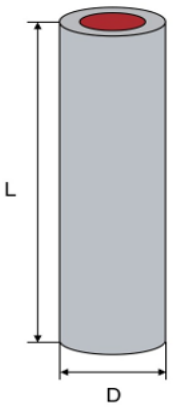
Cycle Life Performance

Charge: 1C CCCV with 0.02C cut off
Discharge: 1C or 3C



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2170-58E Energy Li-ion Cell





M=metal P=power E=energy B=balanced

SPECIFICATIONS		
Capacity	Typical	5.8 Ah
Energy	Typical	20.5 Wh
Cell Voltage	Nominal	3.6 V
	Charge	4.2 V
	Discharge	2.5 V
Charge Rate	Typical	0.2C
	Maximum	1C
Discharge Rate	Maximum Continuous	1C
	Maximum Pulse @50% SoC, 25°C, 30s	3C
Temperature	Discharge	−20 to 60 °C
	Charge	0 to 50 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 20 mΩ
	DCIR (50%SOC, 1C/10s)	≤ 30 mΩ
Weight		70 ± 2.0 g
Packaging		Cylindrical
Chemistry		NMC/C+Si
Energy Density	Gravimetric @25°C, 100% DoD, C/5	295 Wh/kg
Cycle Life	+0.5C/-1C, 2.75-4.2V, 80%SOH	1500 @ 25°C
		800 @ 45°C
Certification		Designed for UN38.3

DIMENSIONS		
Size	D	21.2 ± 0.2 mm
	L	70.5 ± 0.2 mm

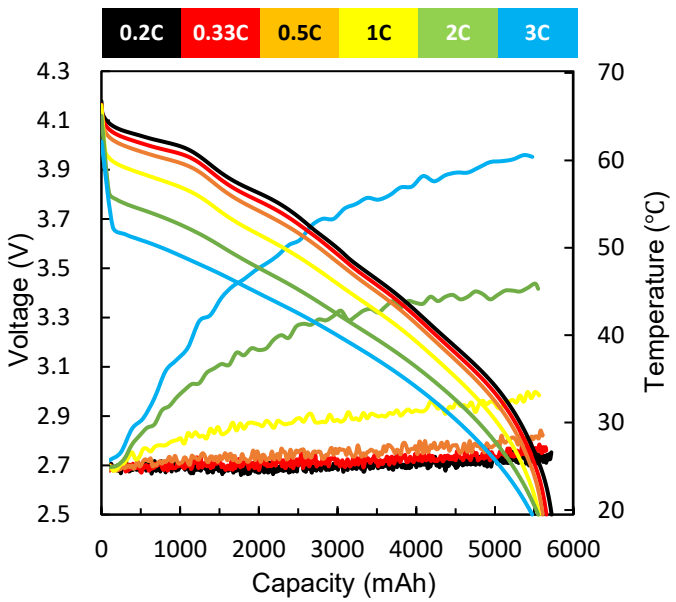
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2170-58E Energy Li-ion Cell

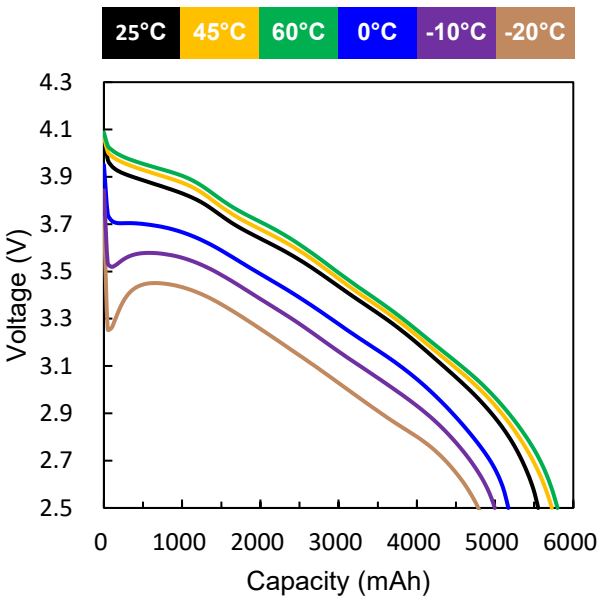
Discharge Rate Capability

Charge: 25 °C, 0.5C CCCV with 0.02C cut off
Discharge: 25 °C, 0.2C/0.33C/0.5C/1C/2C/3C



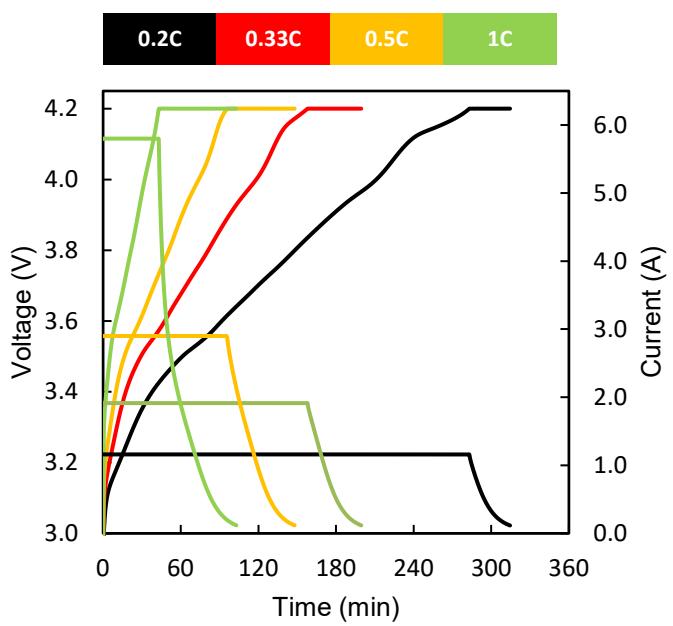
High/Low Temperature Discharge Capability

Charge: 0.5C CCCV with 0.02C cut off @ 25 °C
Discharge: 0.2C @ 60/45/25/0/-10/-20 °C



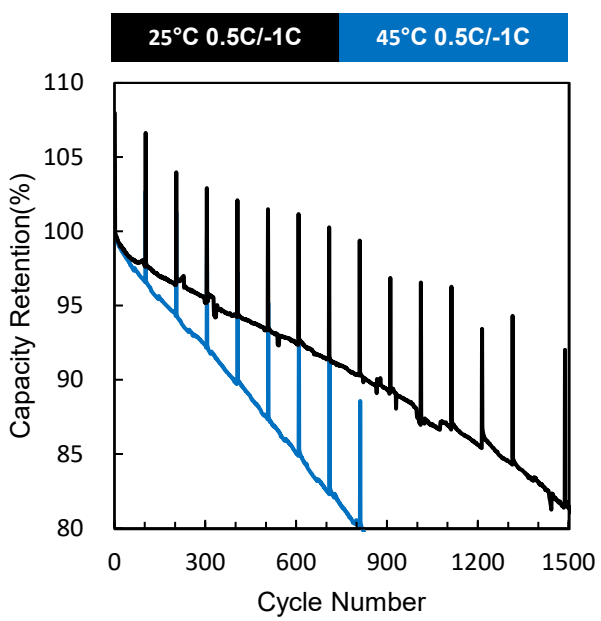
Charge Rate Profiles

Charge: 25 °C, 0.2C/0.33C/0.5C/1C CCCV w/ 0.02C cut off
Discharge: 25 °C, 1C



Cycle Life Performance

Charge: 0.5C CCCV with 0.05C cut off
Discharge: 1C



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Leading Cell Performance Comparison for Drone Applications

High Energy Density and Best-in-Class Performance

Application	Model Number			GED (Wh/kg)	Capacity (Ah)	Nominal Voltage (V)	Energy (Wh)	Max Charge Rate (C)	Max Discharge Rate		Cycling (100% DOD, 80% SOH, 25°C)		Applied Pressure (PSI)
									Continuous	Pulse	Charge/Discharge	Cycle Life	
Energy Cell (E)	SES	H10E	Li-ion	396	11.8	3.4	40.1	2	2	4	1C/1C	400 cycles	0
	amprius	SA03	Li-ion	395	11.8	3.4	40.3	C/3	1	3	0.3C/1C	300 cycles	15
	EGI BATTERY	LNP0130M	Li-Metal	398	3.5	3.8	13.4	n/a	3	n/a	n/a	n/a	n/a
	BEI	MUL3A	Anode free	417	3.1	3.86	12	4	20	n/a	0.2C/1C	< 100 cycles	n/a
	Ampace	Consumer Drone	Li-ion	316	2.8	3.5	9.76	1.8	3	-	-	> 300 cycles	0
	MOLICEL (2170)	M65A	Li-ion	322	6.5	3.6	23.4	1	4	-	1C/1C	> 300 cycles	0
Balanced Cell (B)	SES	H10B	Li-ion	380	11.4	3.4	39	4	6	8	1C/3C	400 cycles	0
	amprius	SA504	Li-ion	386	11.0	3.4	37.6	2	6	8	1C/3C	400 cycles	0
	Ampace	Industrial Drone	Li-ion	274	10.1	3.7	37.6	2	4	-	-	> 400 cycles	0
Power Cell (P)	SES	H10P	Li-ion	340	10.8	3.5	37.5	4	7	10	1C/3C	800 cycles	0
	amprius	SA08	Li-ion	353	11.0	3.4	37.6	3	5	8	1C/3C	250 cycles	0
	EGI BATTERY	XNP0094J	Li-ion	302	9.4	3.6	33.8	2	5	-	1C/3C	> 700 cycles	n/a
	Ampace	C380Y7	Li-ion	286	49.1	3.7	183	2	9	-	-	1000 cycles	0
	MOLICEL (2170)	P50B	Li-ion	260	5.0	3.6	18	5	12	-	1C/100W	> 500 cycles	0
		P60C*	Li-ion	284	6.0	3.6	21.6	5	16	-	1C/100W	> 500 cycles	0

***Data source: Company websites and disclosures**

SES AI data link: https://www.ses.ai/drones; About: Energy - https://voltt.aboutenergy.io/cell-library/list?q=ses
Amprius data link: https://amprius.com/documents/Amprius_Product_Catalog.pdf
EGI data link: https://www.enpower-greentech.eu/assets/batteries/downloads/us_letter-swift-datasheet_white_en.pdf
BEI Lab data link: https://www.lumiaway.com/bei-lab/; Cell Library - List View | Voltt
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