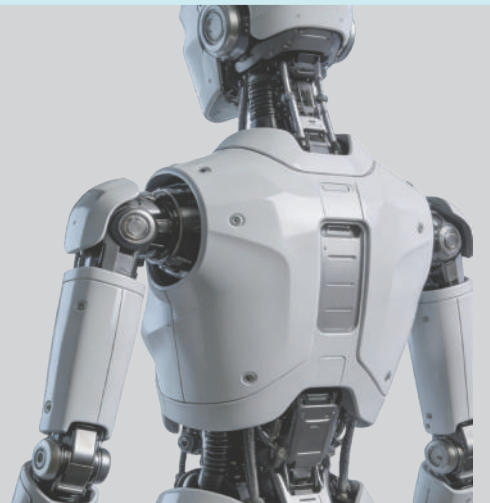




SES AI BATTERY SOLUTIONS

- 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.

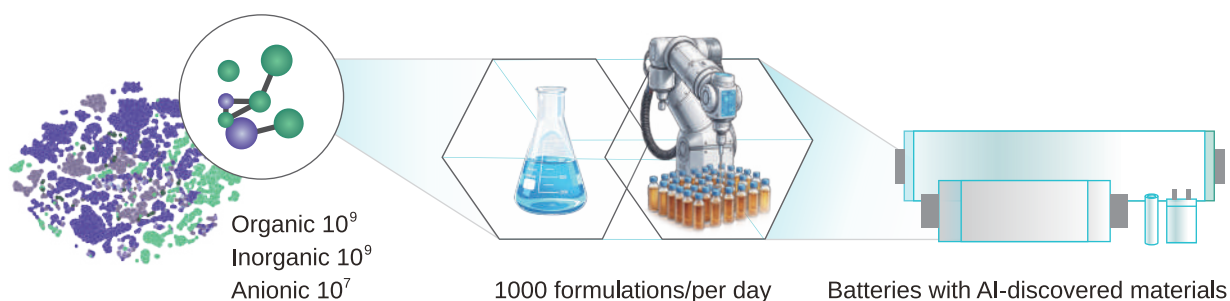
Our high-energy and high-power cells are the first in the world to incorporate electrolyte materials discovered by AI. Designed for demanding commercial and defense applications, SES AI cells power urban air mobility, drones, robotics, and other next-generation systems.

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.



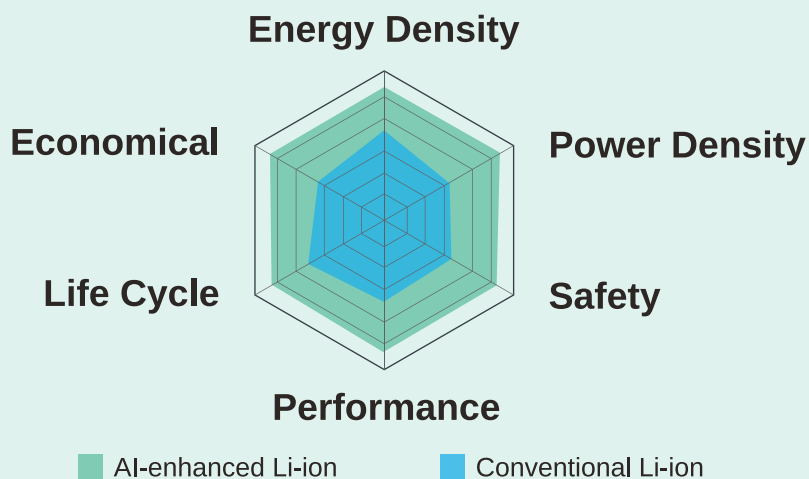
AI-ENHANCED MATERIAL DISCOVERY

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

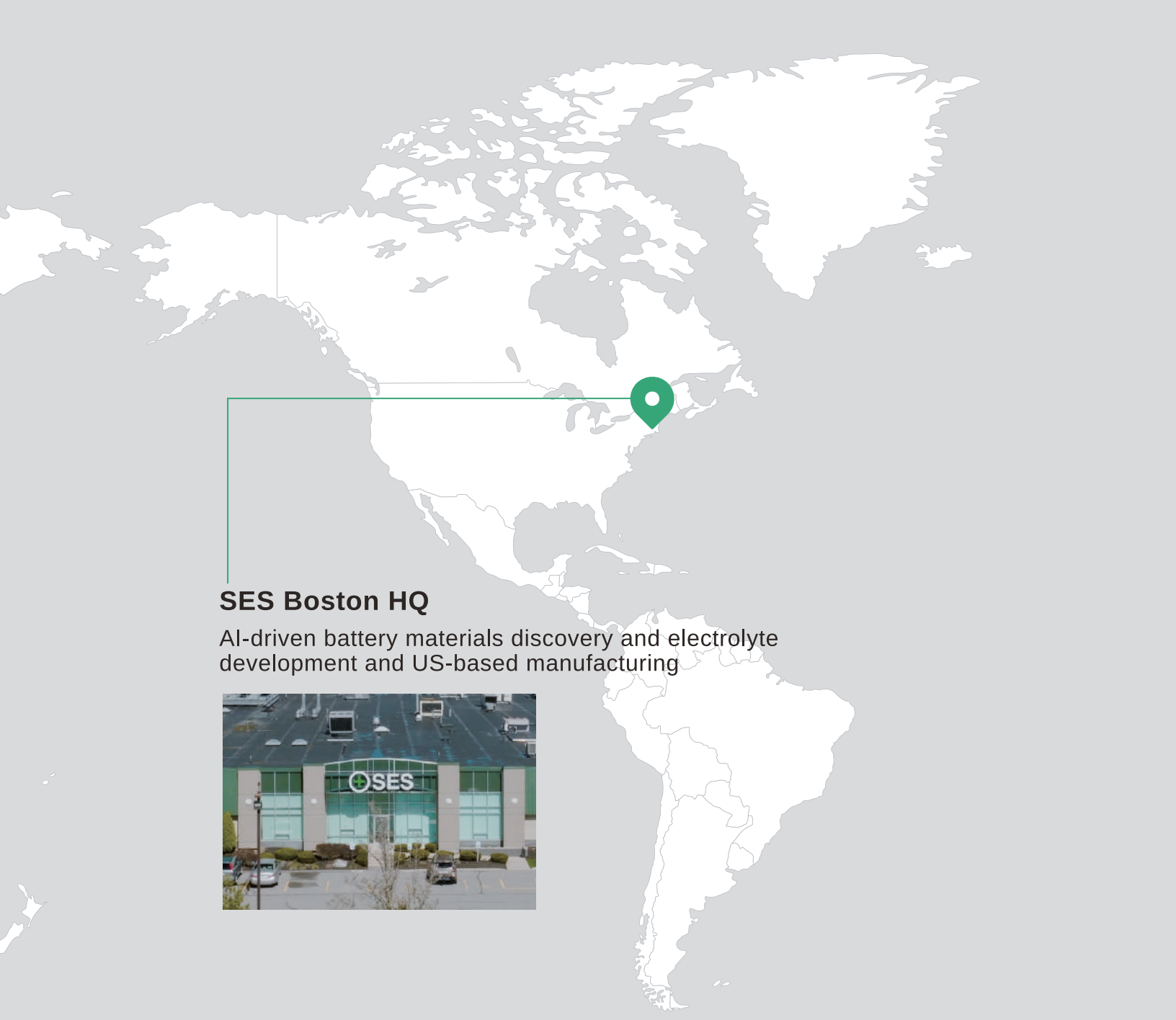


SES Malaysia

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.

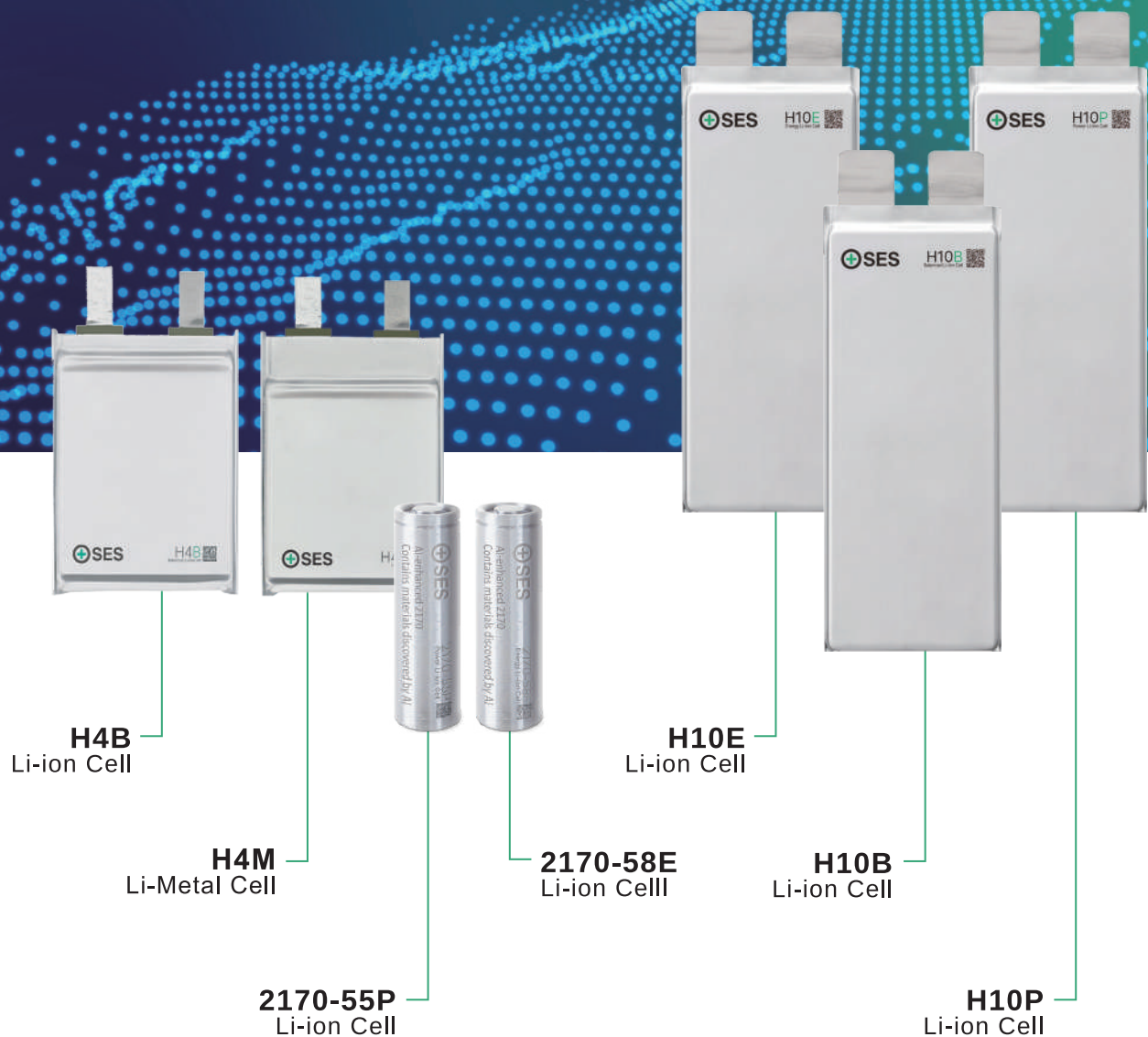


SES Boston HQ

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



PRODUCT FAMILY



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



H6AF
Anode-Free Cell

H3AF
Anode-Free Cell

H4AF
Anode-Free Cell

H6P
Li-ion Cell

H30P
Li-ion Cell

H2B
Li-ion Cell

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

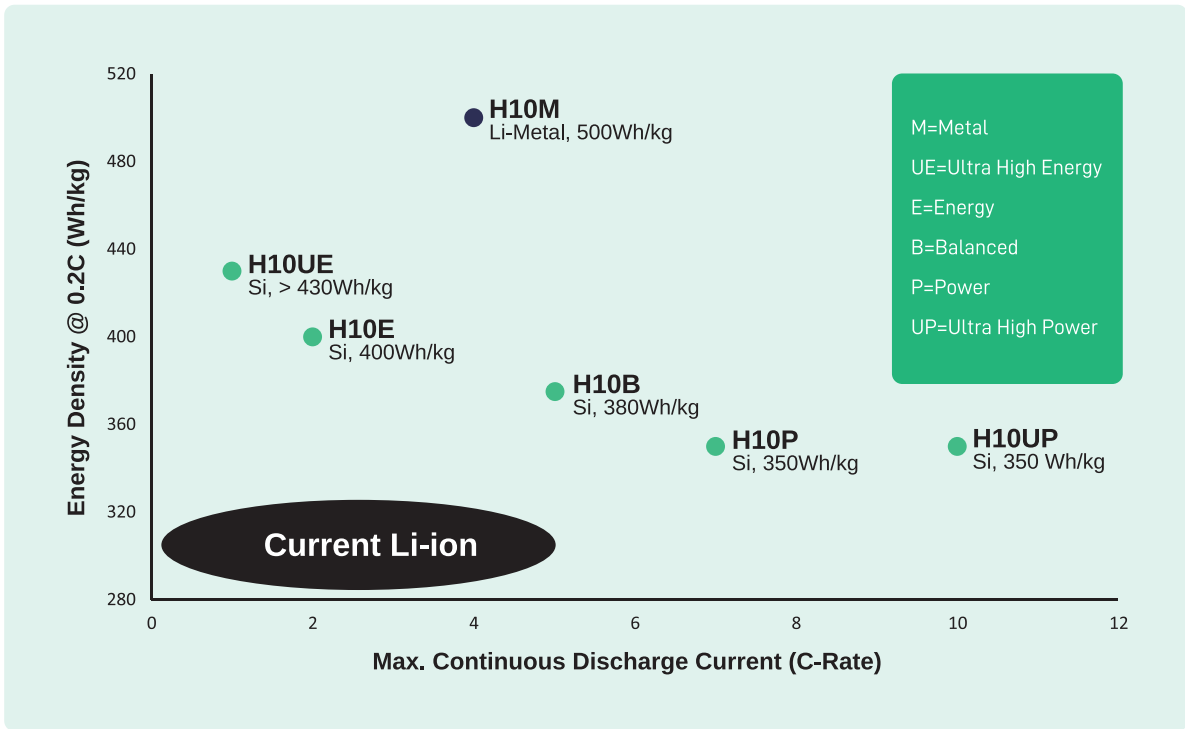
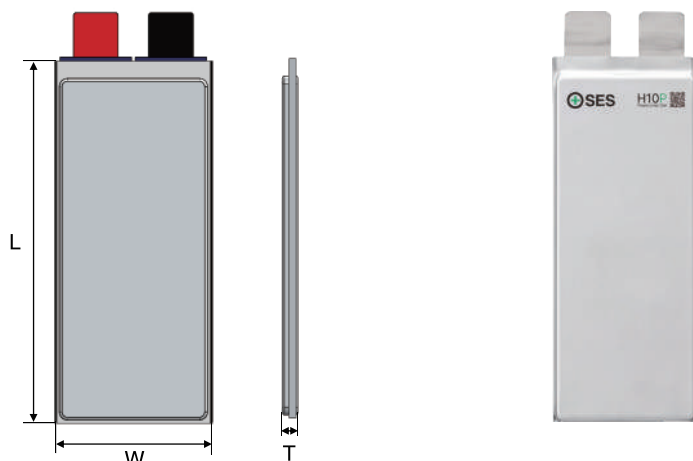


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H10P Power Li-ion Cell



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

SPECIFICATIONS

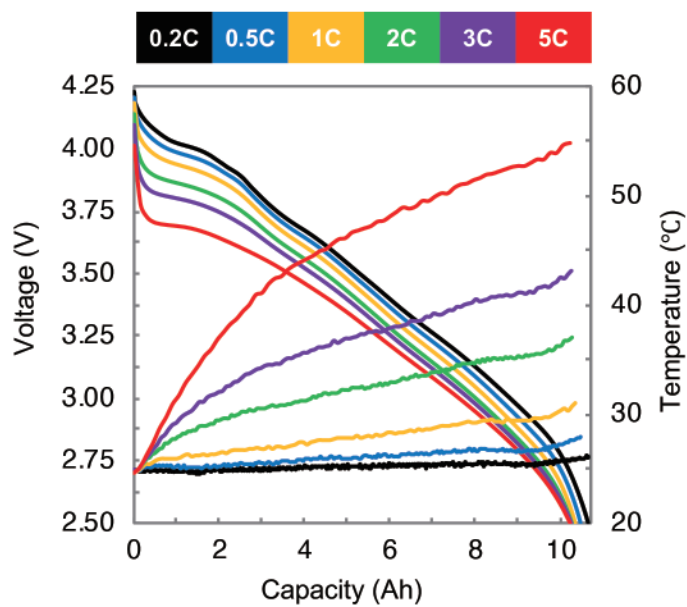
Capacity	Typical	10.8 Ah
Energy	Typical	37.5 Wh
Cell Voltage	Nominal	3.47 V
	Charge	4.25 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	4C
Discharge Rate	Maximum Continuous	7C
	Maximum Pulse @50% SoC, 25°C, 30s	10C
Temperature	Discharge	-20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @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	+1C/-3C, 2.7-4.25V, 80% SOH, 0 PSI	> 800 @ 25°C
		> 600 @ 45°C
Certification		UN38.3

DIMENSIONS

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

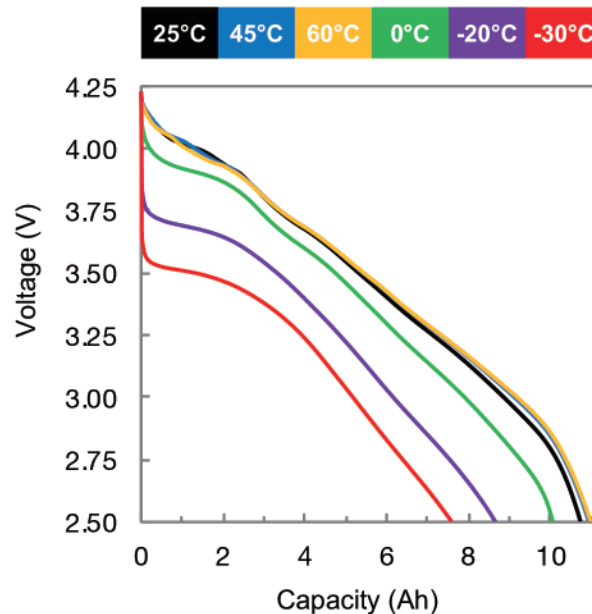
Discharge Rate Capability

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



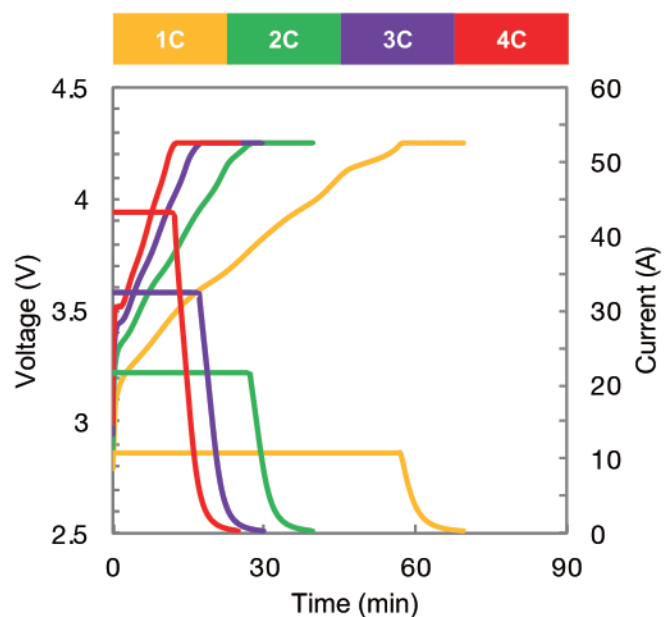
High/Low Temperature Discharge Capability

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



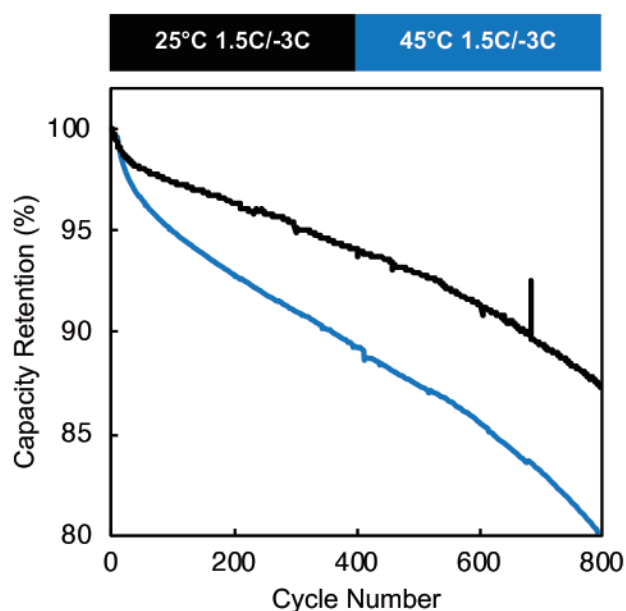
Charge Rate Profiles

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

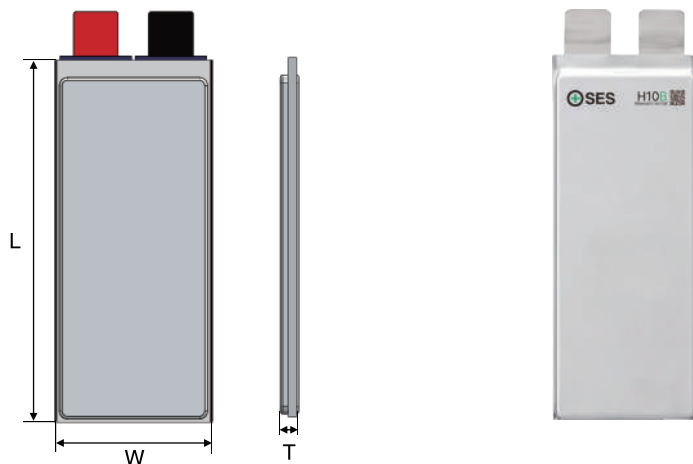


Cycle Life Performance

Charge: 1.5C or 0.5C CCCV with 0.03C cut off
Discharge: 3C



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	6C
	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)	≤ 10 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)	5.8 ± 0.3 mm

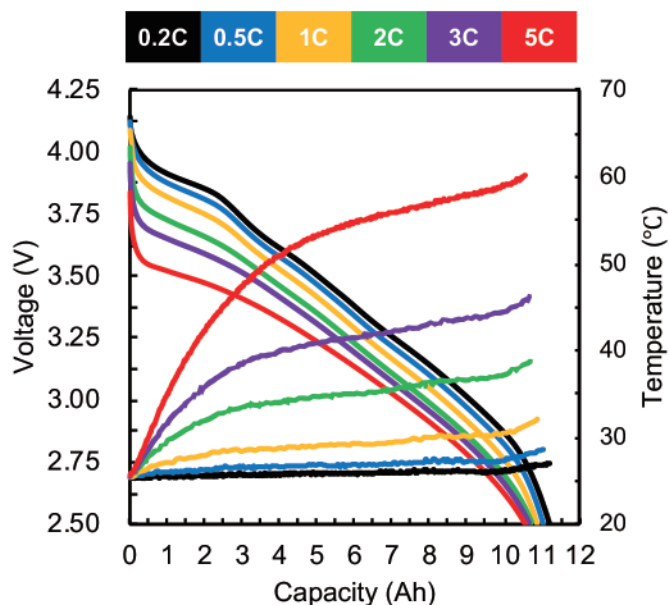
H10B Balanced Li-ion Cell



Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.05C cut off

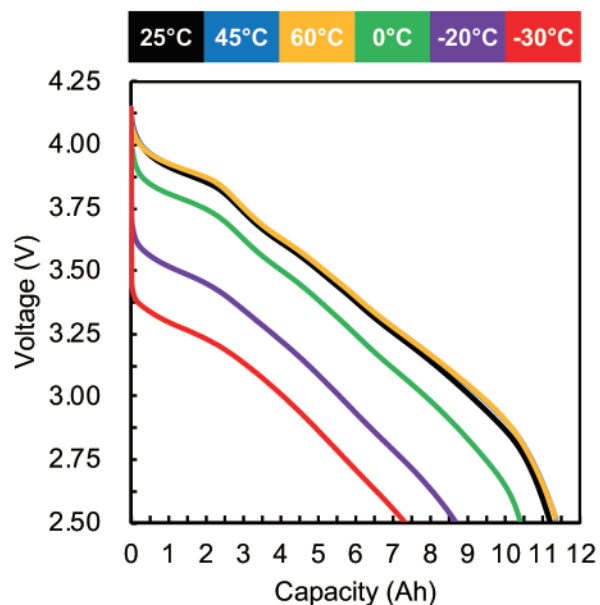
Discharge: 25 °C, 0.2C/0.5C/1C/2C/3C/5C



High/Low Temperature Discharge Capability

Charge: 1C CCCV with 0.05C cut off @ 25 °C

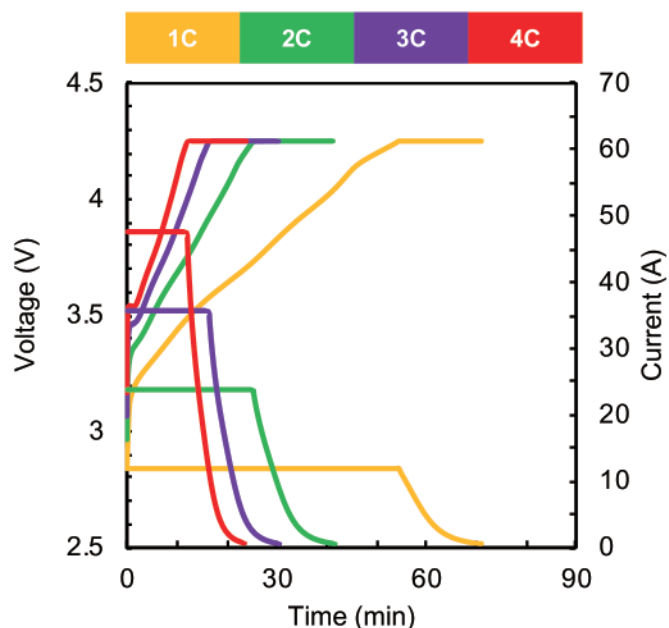
Discharge: 0.2C @ 60/45/25/0/-20/-30 °C



Charge Rate Profiles

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

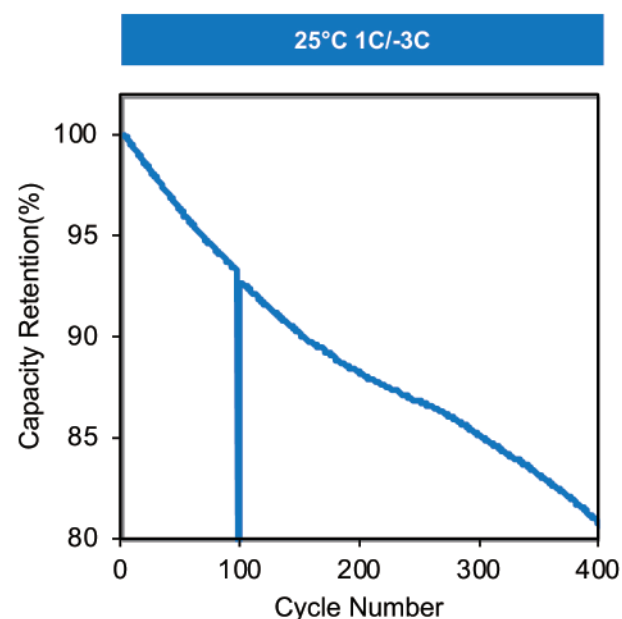
Discharge: 25 °C, 0.2C



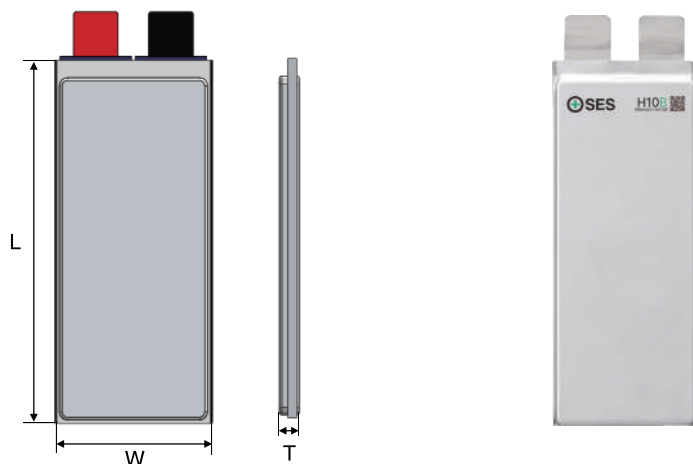
Cycle Life Performance

Charge: 1C CCCV with 0.05C cut off

Discharge: 1C or 3C



H10E Energy Li-ion Cell



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

SPECIFICATIONS

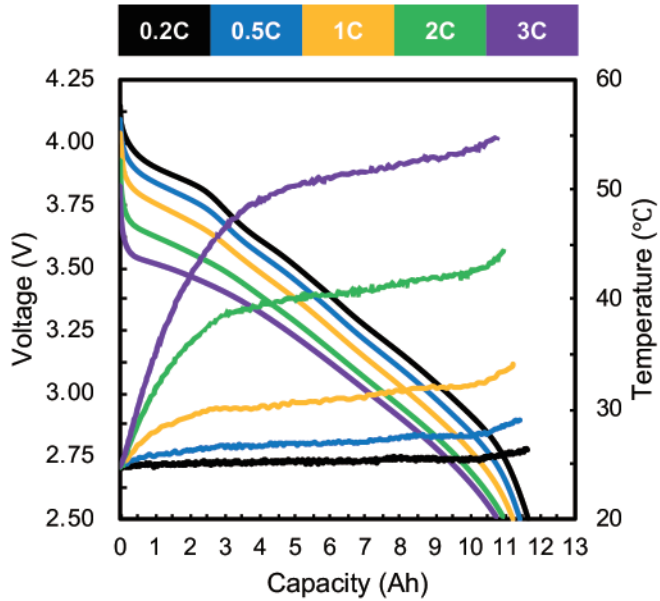
Capacity	Typical	11.8 Ah
Energy	Typical	40.1 Wh
Cell Voltage	Nominal	3.4 V
	Charge	4.3 V
	Discharge	2.5 V
Charge Rate	Typical	1C
	Maximum	2C
Discharge Rate	Maximum Continuous	2C
	Maximum Pulse @50% SoC, 25°C, 30s	4C
Temperature	Discharge	-20 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 10 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 20 mΩ
Weight		101.0 ± 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	380 @ 25°C
Certification		UN38.3

DIMENSIONS

Size	L	139 ± 1.0 mm
	W	59 ± 1.0 mm
	T (@30% SOC)	5.5 ± 0.3 mm

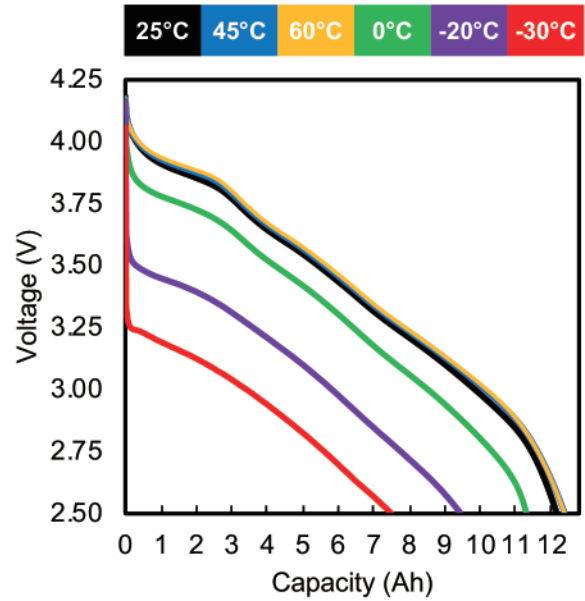
Discharge Rate Capability

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



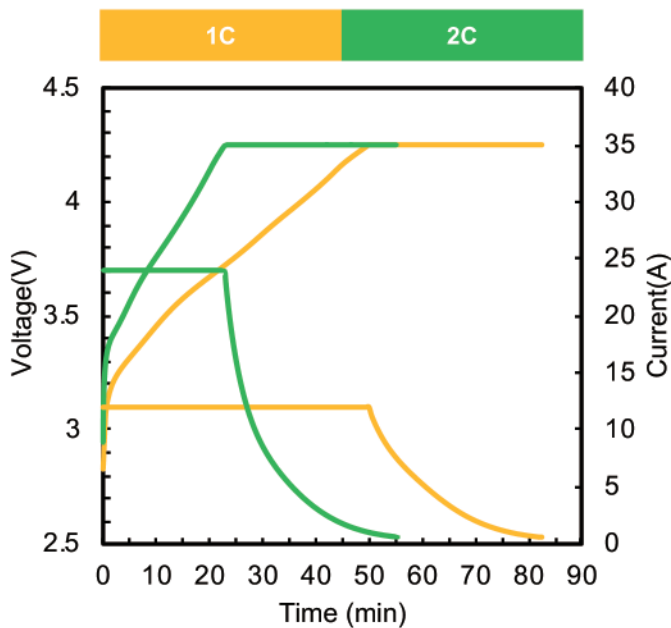
High/Low Temperature Discharge Capability

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



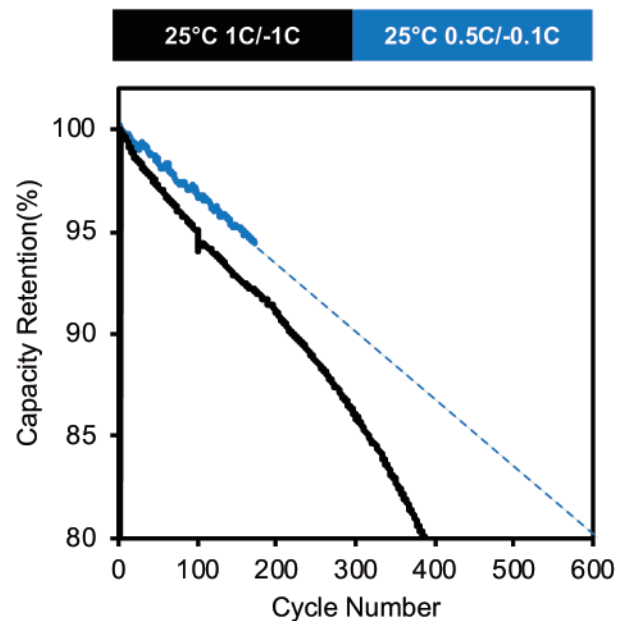
Charge Rate Profiles

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

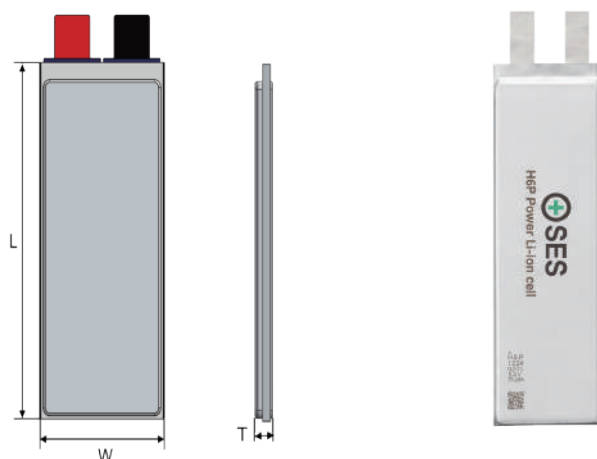


Cycle Life Performance

Charge: 1C or 0.5C CCCV with 0.05C cut off
Discharge: 1C or 0.1C



H6P Power Li-ion Cell



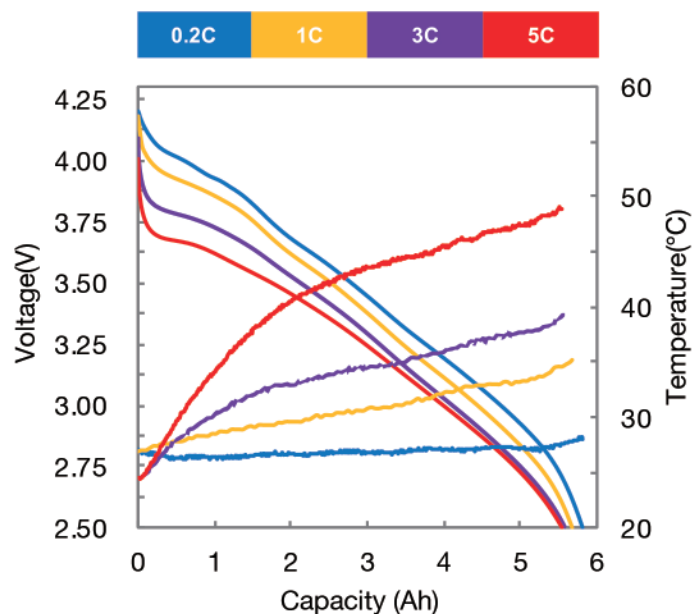
M=metal **P**=power **E**=energy **B**=balanced

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	4C
Discharge Rate	Maximum Continuous	7C
	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)	≤ 8 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 20 mΩ
Weight		61.5 ± 1.5 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric @25°C, 100% DoD	340 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)	6.4 ± 0.3 mm

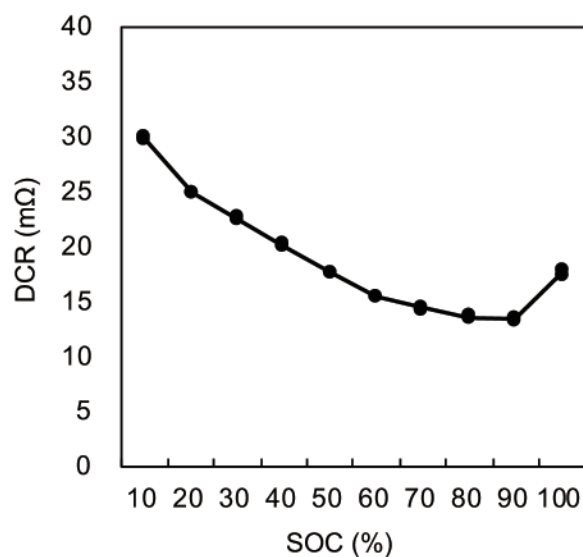
Discharge Rate Capability

Charge: 25 °C, 1C CCCV with 0.03C cut off
Discharge: 25 °C, 0.1C/0.2C/1C/3C/5C



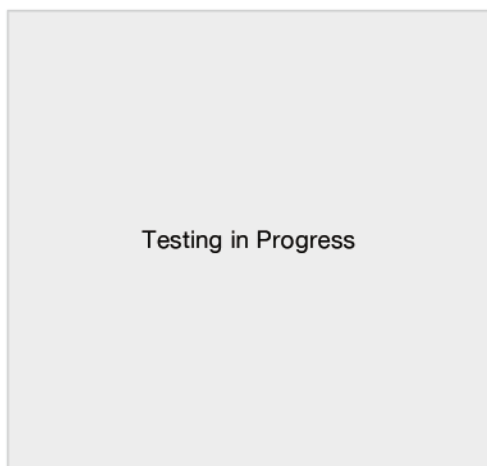
DCR vs SOC Profile

DCR Pulse: 25 °C, 3C 10s



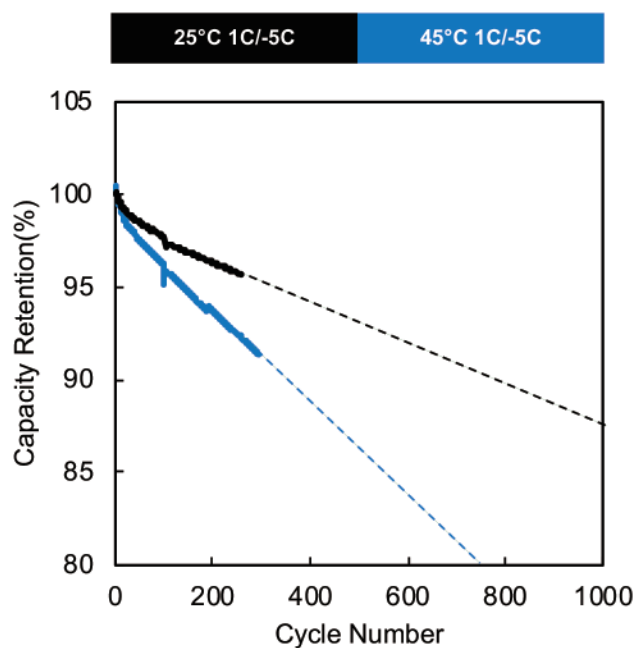
Charge Rate Profiles

To be added

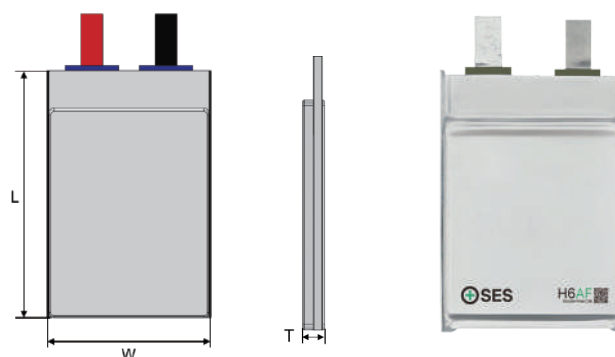


Cycle Life Performance

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



H6AF Anode-Free Cell



M=metal **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)	≤ 15 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	>70 @ 25°C
	+0.2C/-1C, 2.5-4.5V, 80%SOH, 0 PSI	>10 @ 25°C
Certification		UN38.3

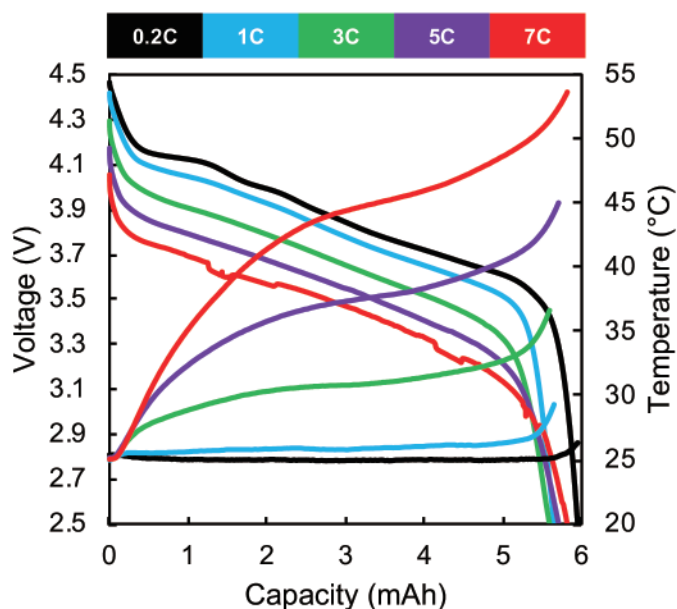
DIMENSIONS

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

Discharge Rate Capability

Charge: 25 °C, 0.33C CCCV with 0.05C cut off

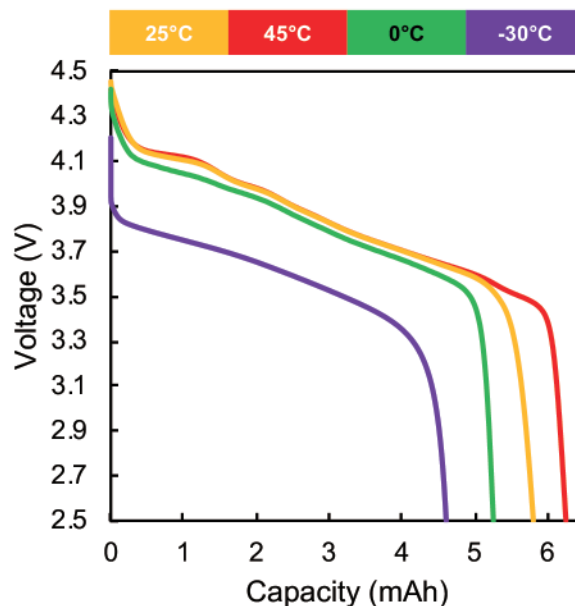
Discharge: 25 °C, 0.2C/1C/3C/5C/7C



High/Low Temperature Discharge Capability

Charge: 0.33C CCCV with 0.05C cut off @ 25 °C

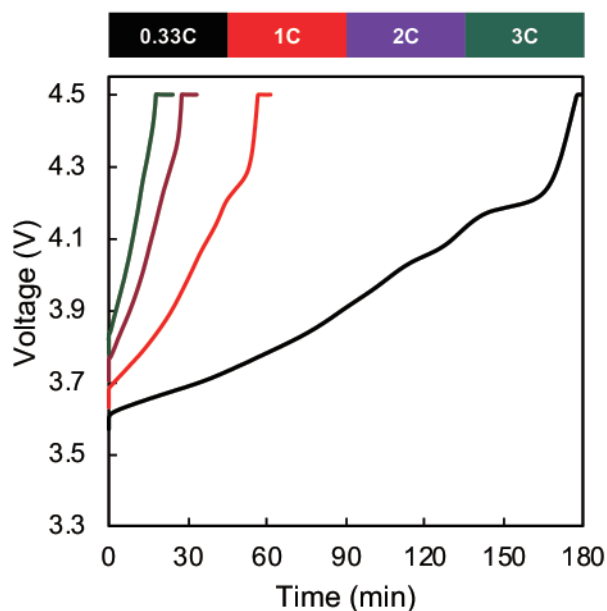
Discharge: 0.33C @ 40/25/0/-10/-20/-30 °C



Charge Rate Profiles

Charge: 25 °C, 0.33C/1C/2C/3C

Discharge: 25 °C, 1C

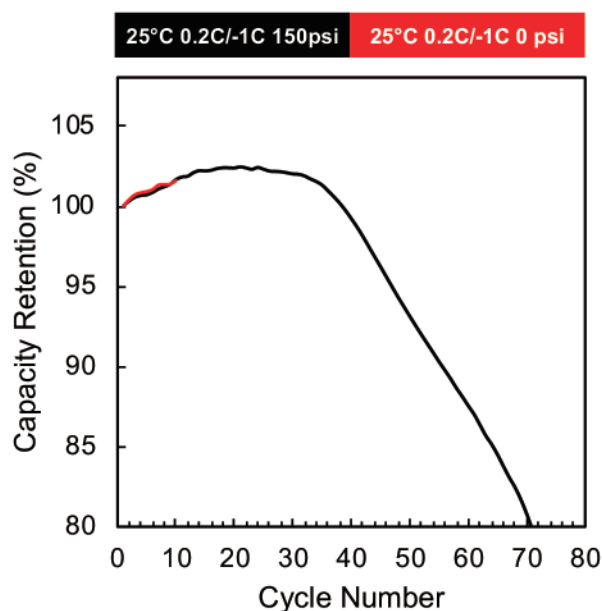


Cycle Life Performance

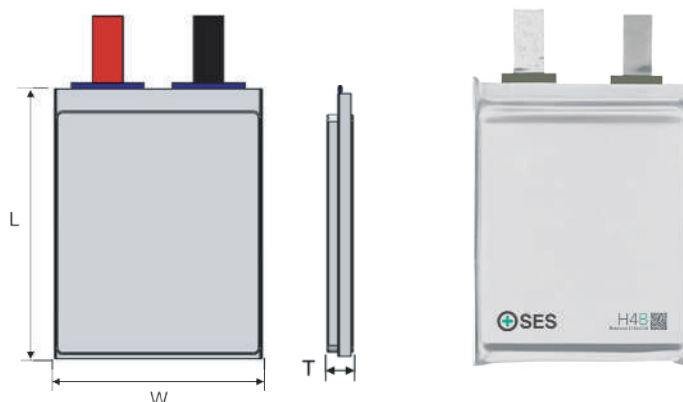
Charge: 0.2C CCCV with 0.05C cut off

Discharge: 1C

Pressure: 0 or 150 psi



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	4C
	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)	≤ 9 mΩ
	DCIR (50%SOC, 1C/10s)	≤ 40 mΩ
Weight		36.3 ± 1.0 g
Packaging		Pouch
Chemistry		NMC/C+Si
Energy Density	Gravimetric @25°C, 100% DoD, C/5	355 Wh/kg
Cycle Life	+1C/-3C, 2.5-4.2V, 80%SOH, 0 PSI	> 500 @ 25°C
Certification		UN38.3

DIMENSIONS

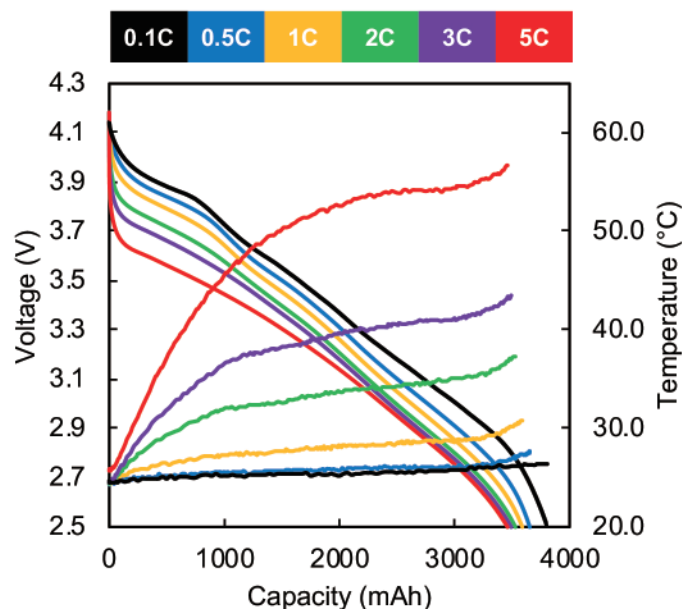
Size	L	71.5 ± 1.0 mm
	W	48.5 ± 0.5 mm
	T (@30% SOC)	6.0 ± 0.2 mm

H4B Balanced Li-ion Cell



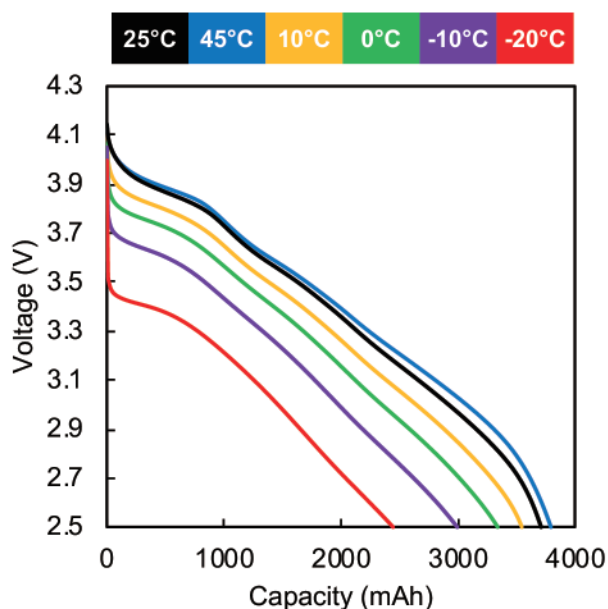
Discharge Rate Capability

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



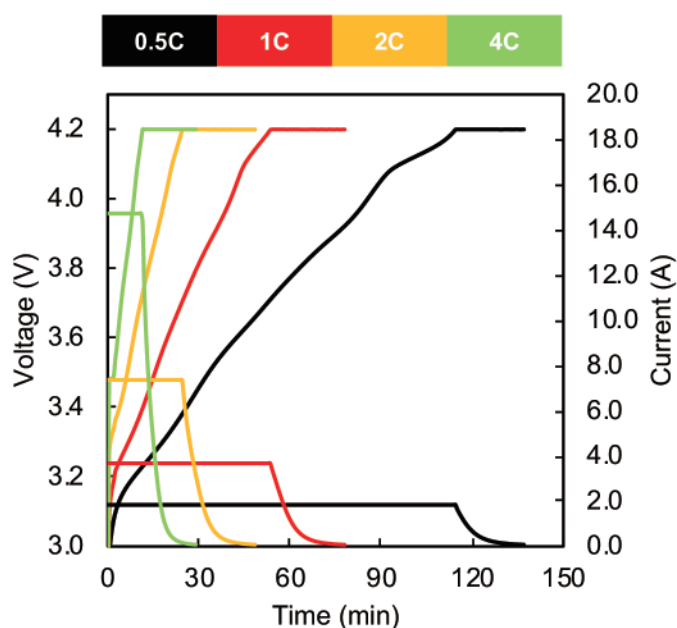
High/Low Temperature Discharge Capability

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



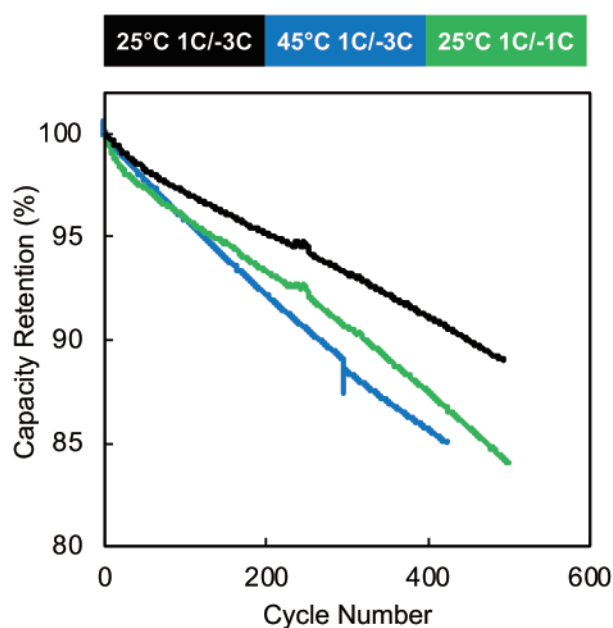
Charge Rate Profiles

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

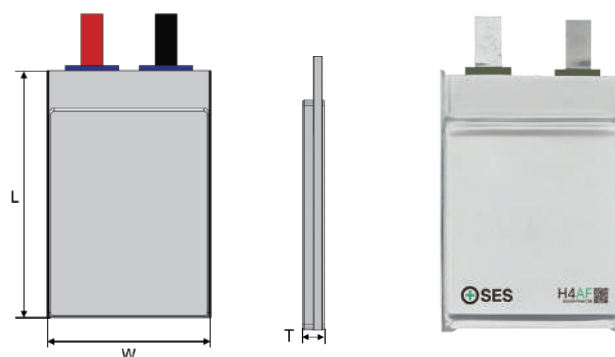


Cycle Life Performance

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



H4AF Anode-Free Cell



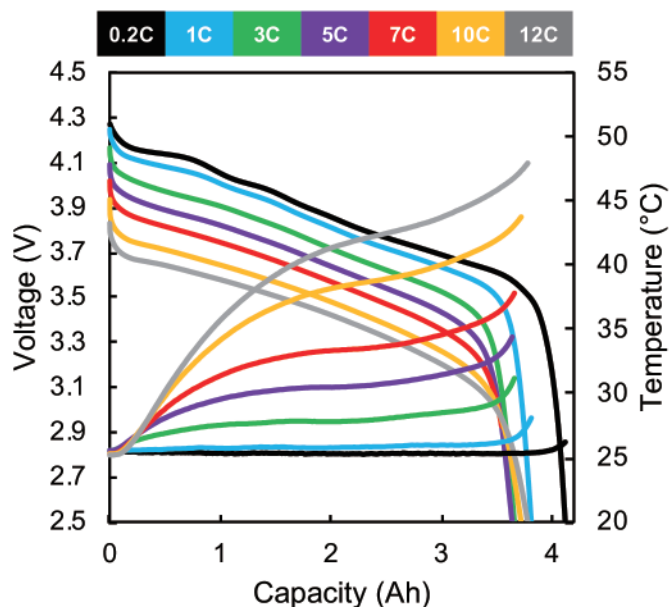
M=metal **P**=power **E**=energy **B**=balanced

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)	≤ 6 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 15 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

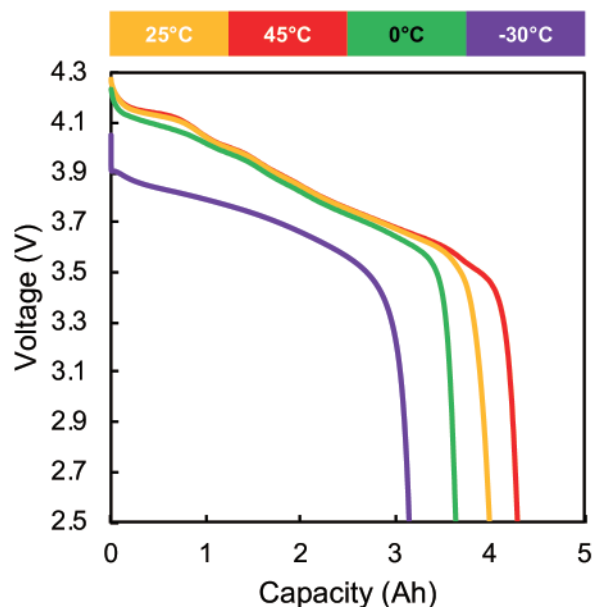
Discharge Rate Capability

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



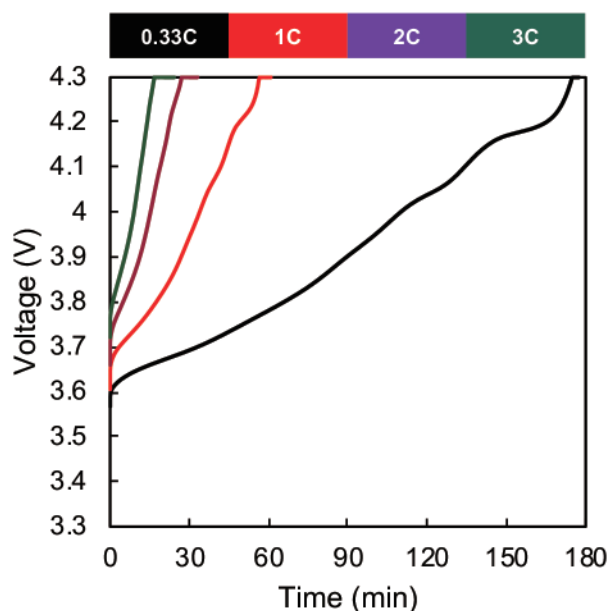
High/Low Temperature Discharge Capability

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



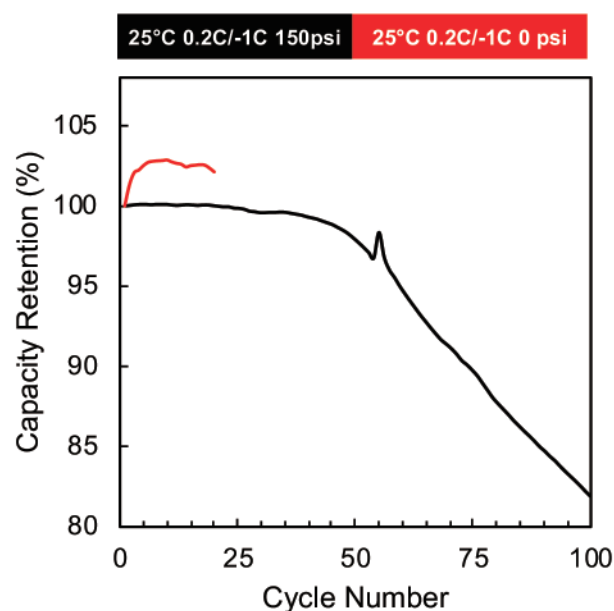
Charge Rate Profiles

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

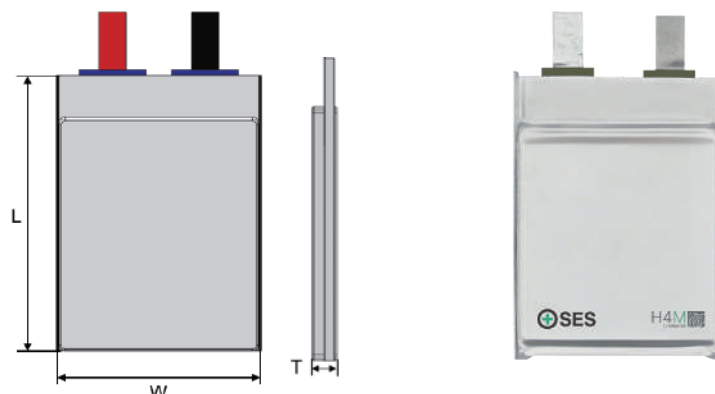


Cycle Life Performance

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



H4M Li-Metal Cell



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

SPECIFICATIONS

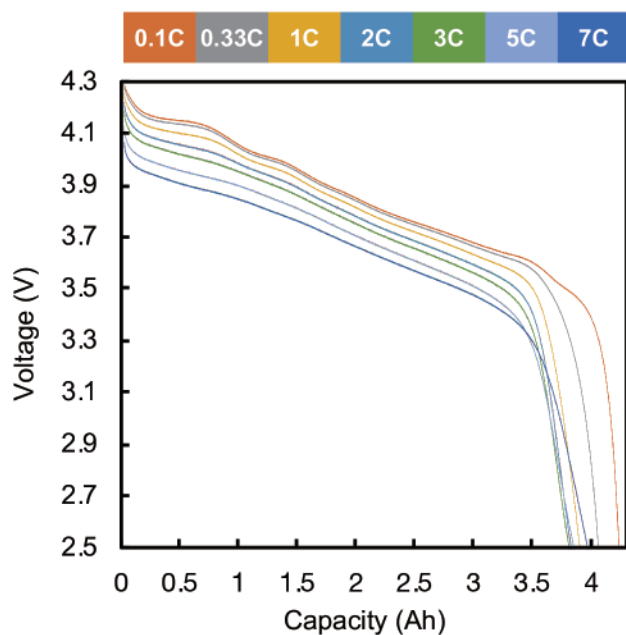
Capacity	Typical	4.2 Ah
Energy	Typical	16.0 Wh
Cell Voltage	Nominal	3.82 V
	Charge	4.3 V
	Discharge	2.5 V
Charge Rate	Typical	C/3
Discharge Rate	Maximum Continuous	7C
	Maximum Pulse @50% SoC, 25°C, 30s	15C
Temperature	Discharge	-30 to 60 °C
	Charge	0 to 45 °C
Internal Resistance	ACIR(1kHz @30% SOC)	≤ 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

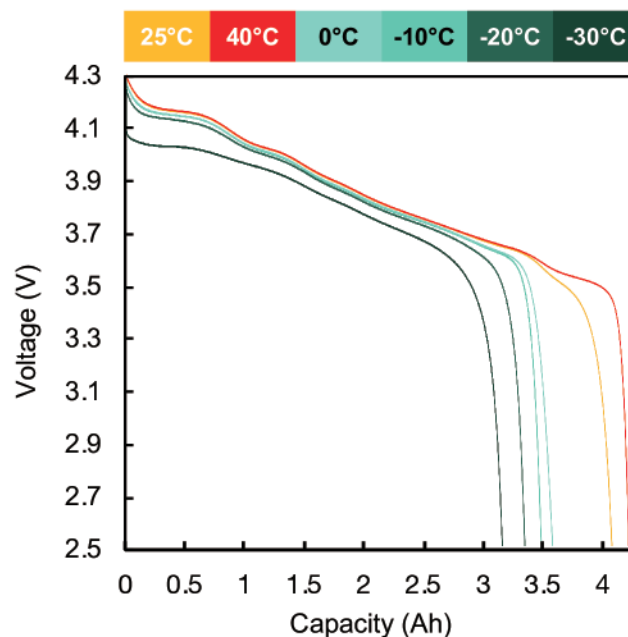
Discharge Rate Capability

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



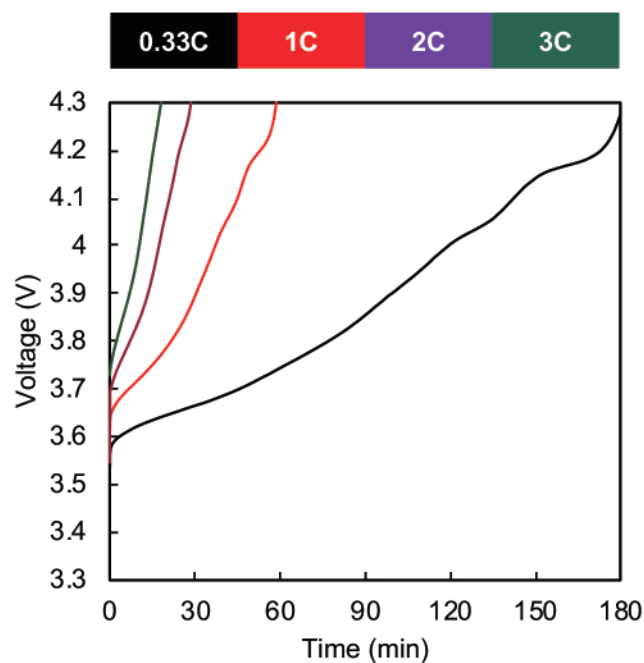
High/Low Temperature Discharge Capability

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



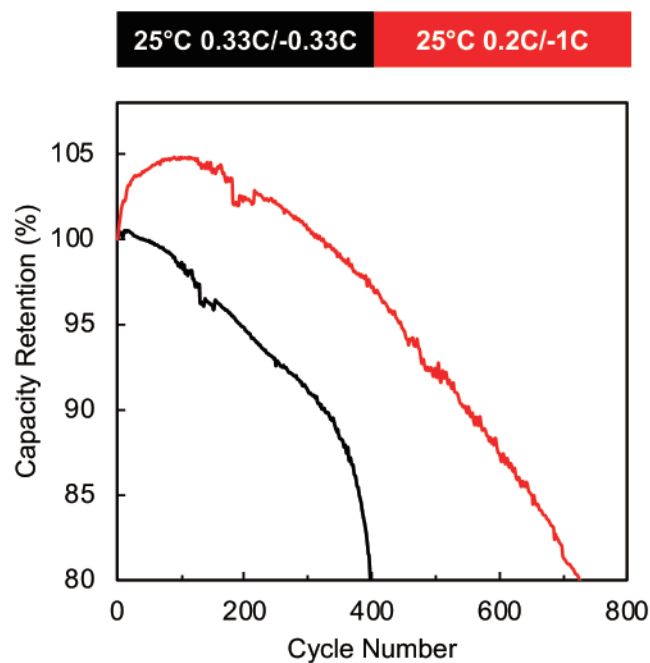
Charge Rate Profiles

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

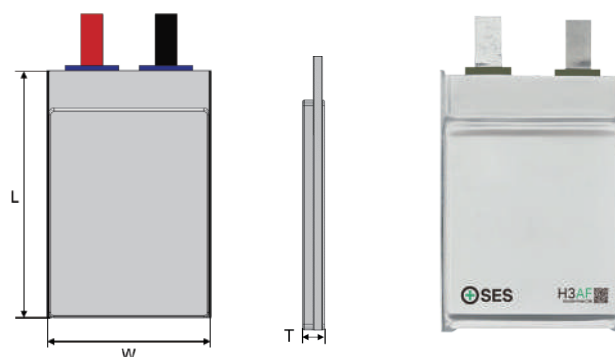


Cycle Life Performance

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



H3AF Anode-Free Cell



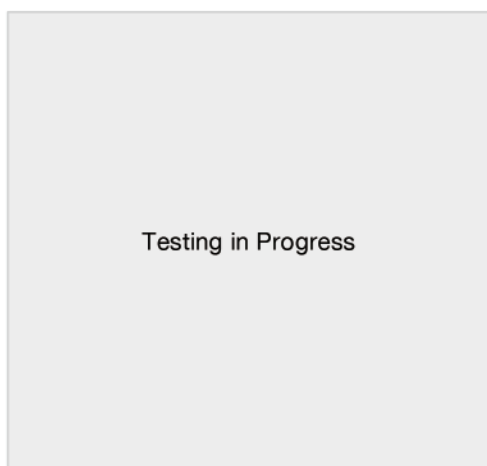
M=metal **P**=power **E**=energy **B**=balanced

SPECIFICATIONS		
Capacity	Typical	3.1 Ah
Energy	Typical	11.8 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)	≤ 6 mΩ
	DCIR (50%SOC, 3C/10s)	≤ 15 mΩ
Weight		27.8 ± 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	>125 @ 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)	3.3 ± 0.2 mm

Discharge Rate Capability

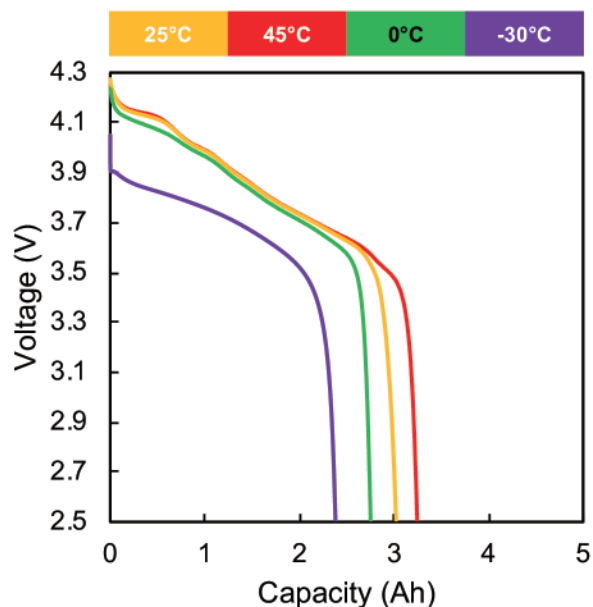
To be added



High/Low Temperature Discharge Capability

Charge: 0.33C CCCV with 0.05C cut off @ 25 °C

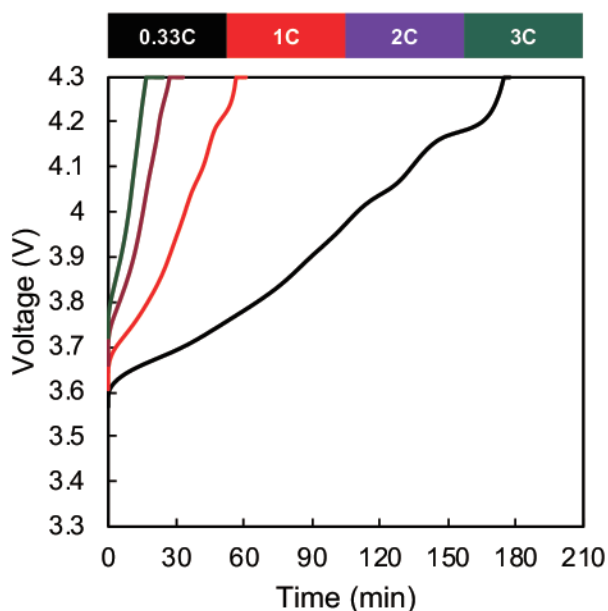
Discharge: 0.33C @ 45/25/0/-30 °C



Charge Rate Profiles

Charge: 25 °C, 0.33C/1C/2C/3C

Discharge: 25 °C, 1C

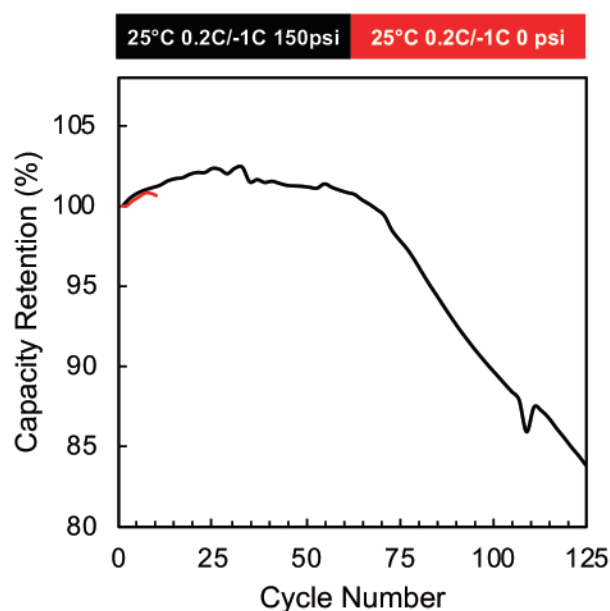


Cycle Life Performance

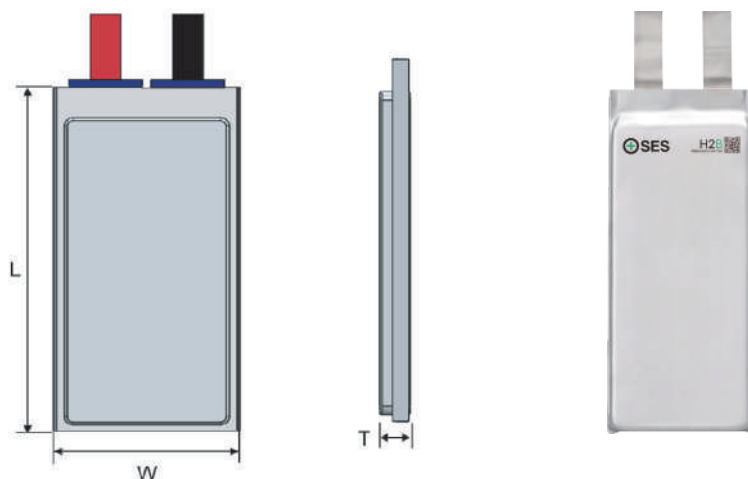
Charge: 0.2C CCCV with 0.05C cut off

Discharge: 1C

Pressure: 0 or 150 psi



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

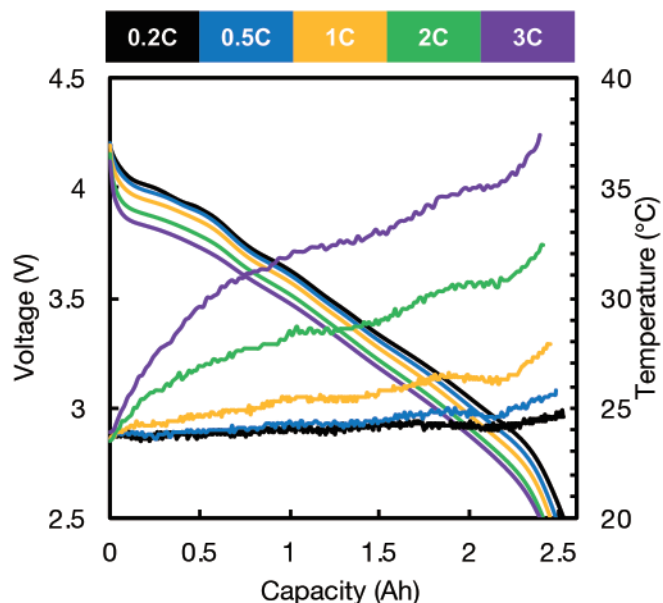
Size	L	63 ± 1.0 mm
	W	30 ± 0.5 mm
	T (@30% SOC)	6.2 ± 0.2 mm

H2B Balanced Li-ion Cell



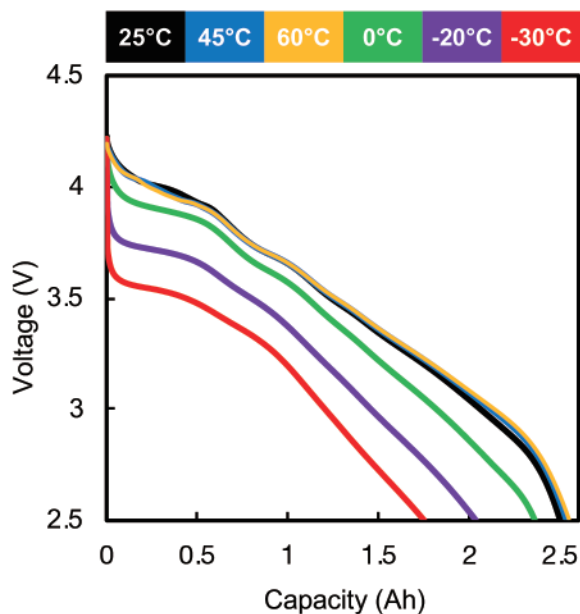
Discharge Rate Capability

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



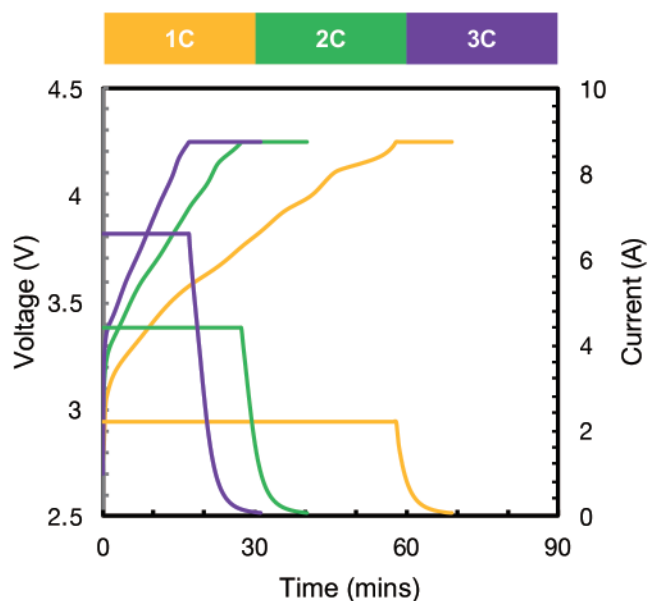
High/Low Temperature Discharge Capability

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



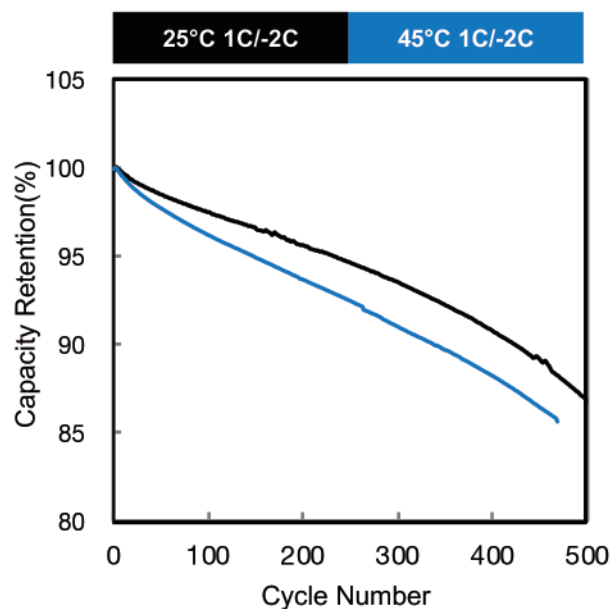
Charge Rate Profiles

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

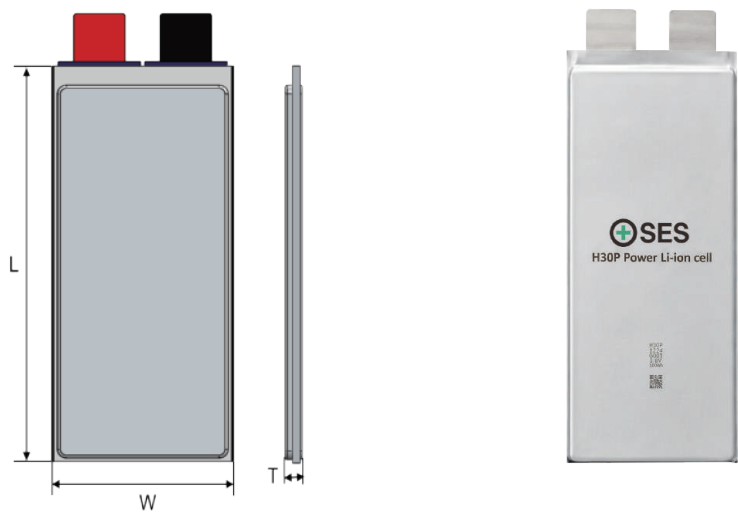


Cycle Life Performance

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



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, 10s	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

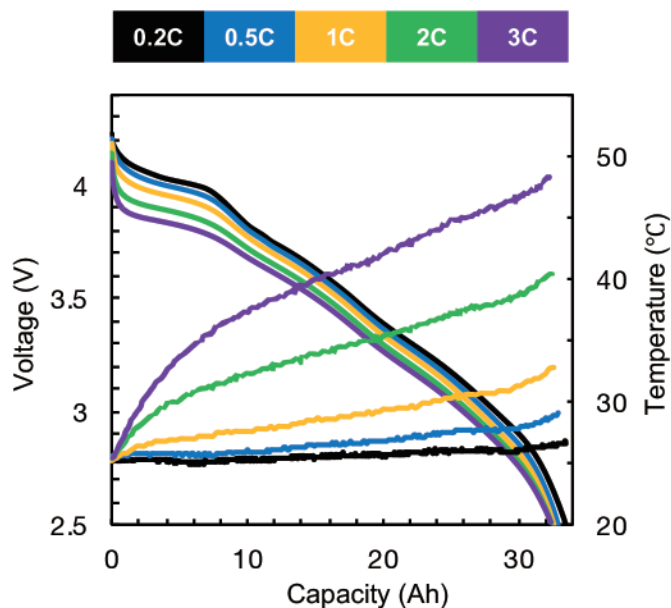
DIMENSIONS		
Size	L	187.0 ± 1.0 mm
	W	87.0 ± 1.0 mm
	T (@30% SOC)	9.2 ± 0.3 mm

H30P Power Li-ion Cell



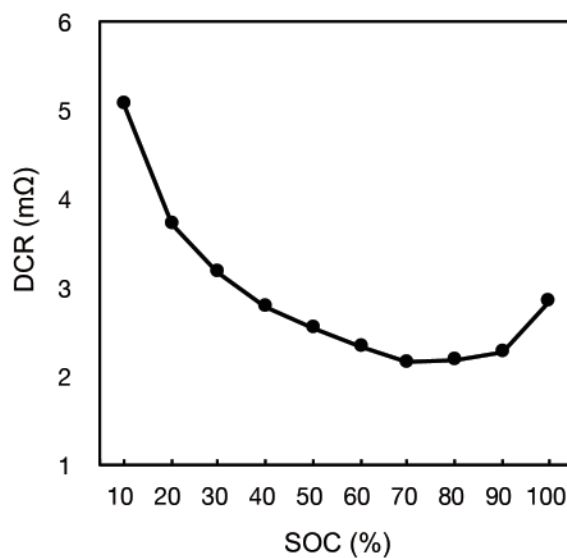
Discharge Rate Capability

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



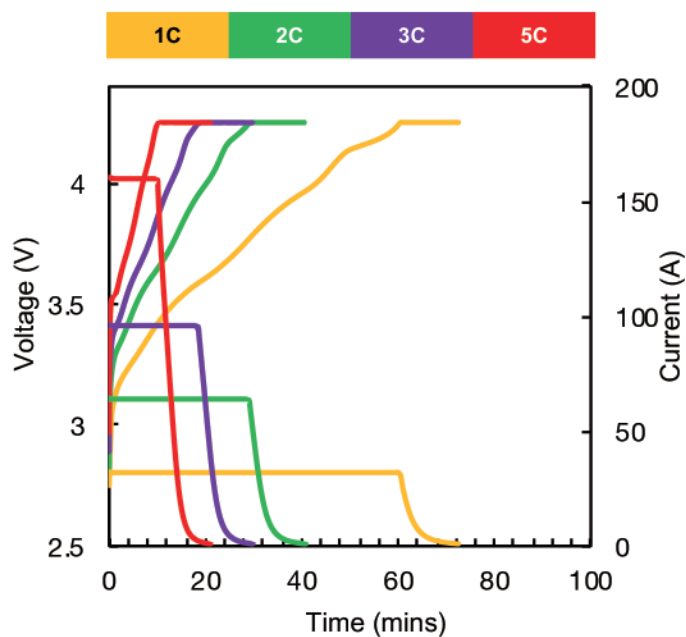
DCR vs. SOC

DCR Pulse: 3C 10 s



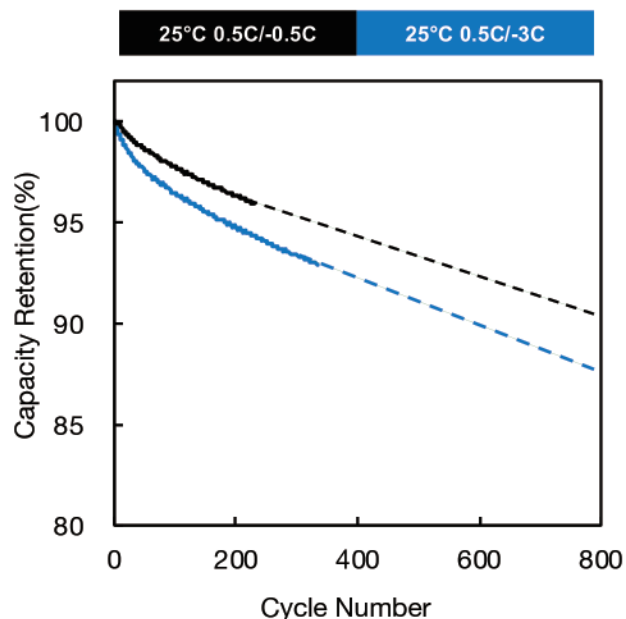
Charge Rate Profiles

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

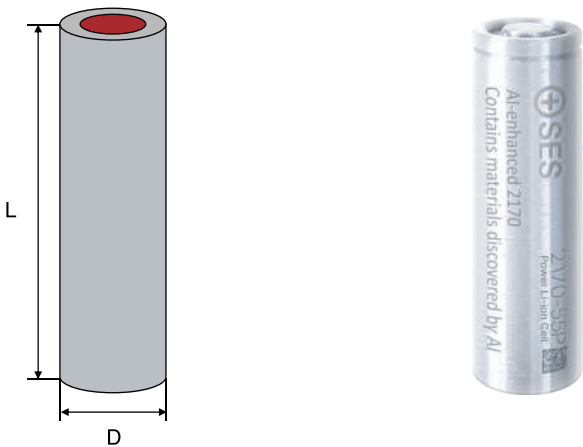


Cycle Life Performance

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



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

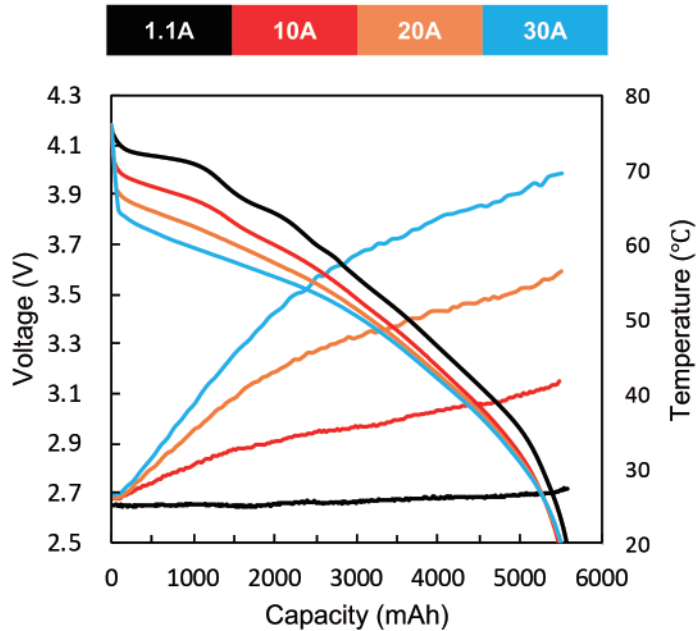
DIMENSIONS		
Size	D	21.2 ± 0.2 mm
	L	70.5 ± 0.2 mm

2170-55P Power Li-ion Cell



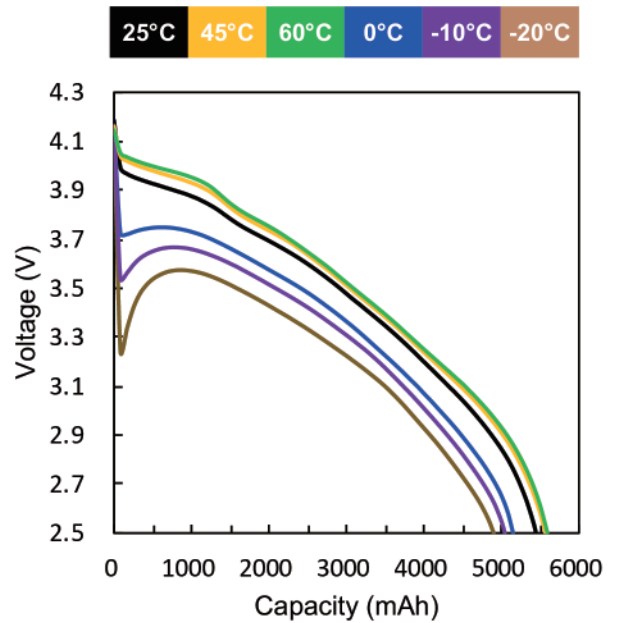
Discharge Rate Capability

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



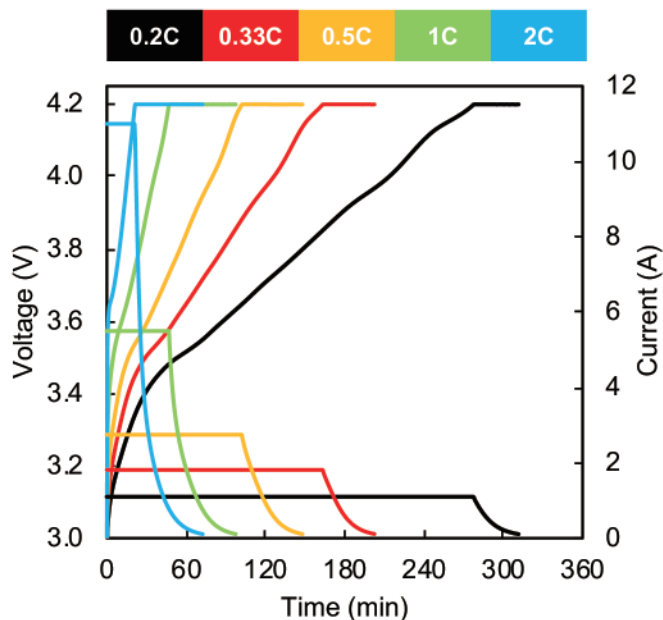
High/Low Temperature Discharge Capability

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



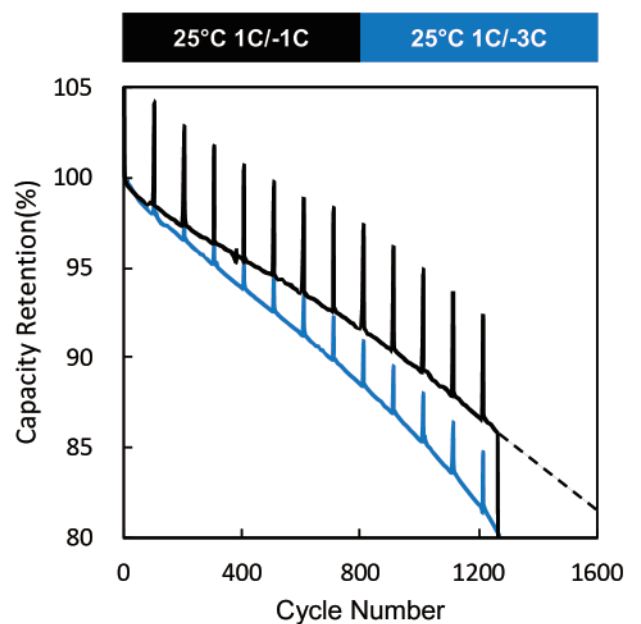
Charge Rate Profiles

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

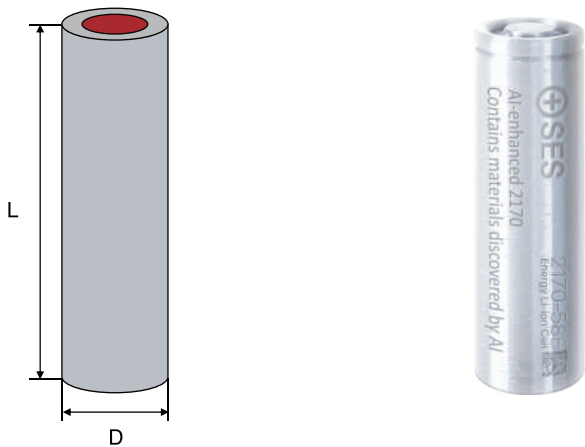


Cycle Life Performance

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



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

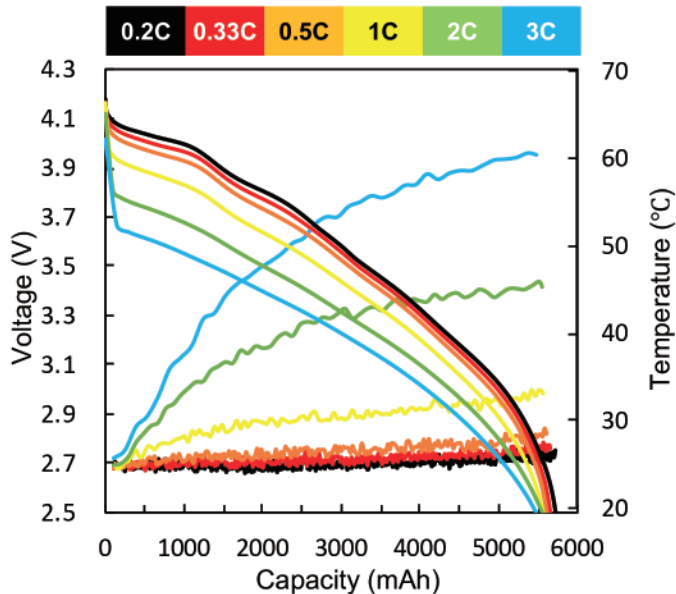
DIMENSIONS		
Size	D	21.2 ± 0.2 mm
	L	70.5 ± 0.2 mm

2170-58E Energy Li-ion Cell



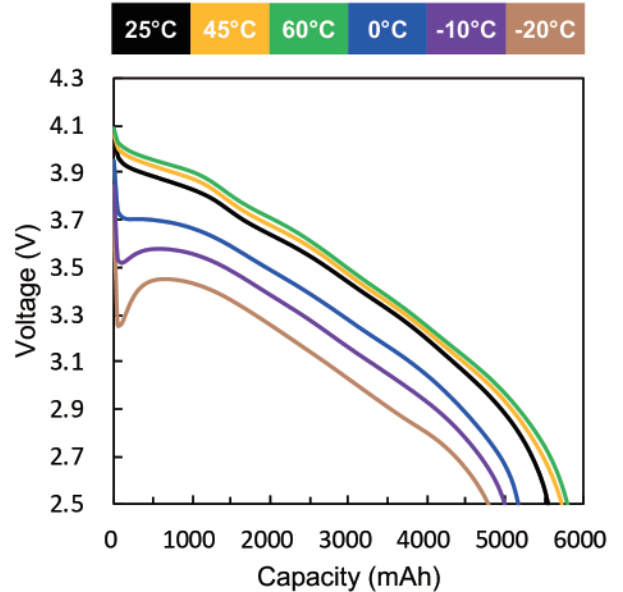
Discharge Rate Capability

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



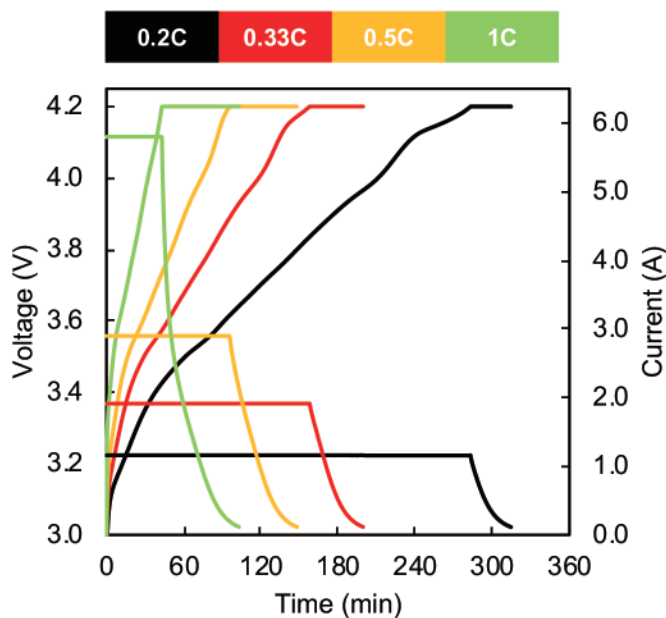
High/Low Temperature Discharge Capability

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



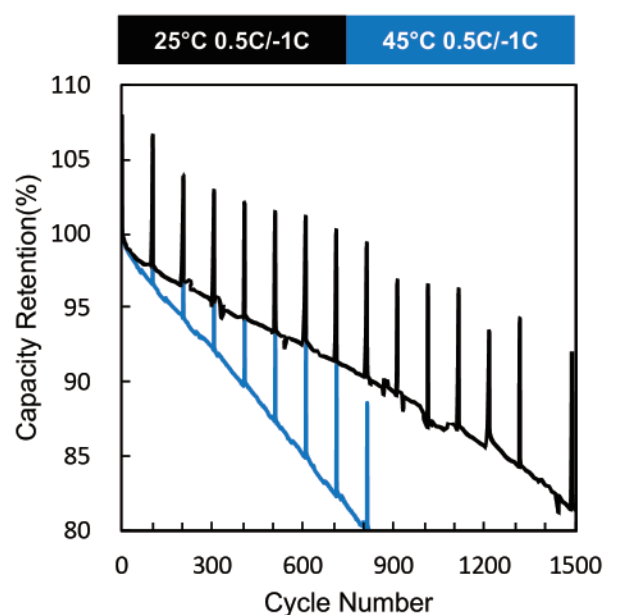
Charge Rate Profiles

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



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)		H10E	Li-ion	396	11.8	3.4	40.1	2	2	4	1C/1C	400 cycles	0
		SA03	Li-ion	395	11.8	3.4	40.3	C/3	1	3	0.3C/1C	300 cycles	15
		LNP0130M	Li-Metal	398	3.5	3.8	13.4	n/a	3	n/a	n/a	n/a	n/a
		MUL3A	Anode free	417	3.1	3.86	12	4	20	n/a	0.2C/1C	< 100 cycles	n/a
		Consumer Drone	Li-ion	316	2.8	3.5	9.76	1.8	3	-	-	> 300 cycles	0
		M65A	Li-ion	322	6.5	3.6	23.4	1	4	-	1C/1C	> 300 cycles	0
Balanced Cell (B)		H10B	Li-ion	380	11.4	3.4	39	4	6	8	1C/3C	400 cycles	0
		SA504	Li-ion	386	11.0	3.4	37.6	2	6	8	1C/3C	400 cycles	0
		Industrial Drone	Li-ion	274	10.1	3.7	37.6	2	4	-	-	> 400 cycles	0
Power Cell (P)		H10P	Li-ion	340	10.8	3.5	37.5	4	7	10	1C/3C	800 cycles	0
		SA08	Li-ion	353	11.0	3.4	37.6	3	5	8	1C/3C	250 cycles	0
		XNP0094J	Li-ion	302	9.4	3.6	33.8	2	5	-	1C/3C	> 700 cycles	n/a
		C380Y7	Li-ion	286	49.1	3.7	183	2	9	-	-	1000 cycles	0
		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

Ampace data link: <https://en.ampace.com/products/low-altitude-flight-product-matrix/drone>

Molicel data link: <https://www.molicel.com/product/> *Tentative Data for P60C





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