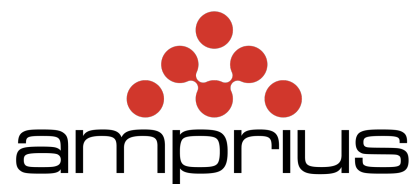
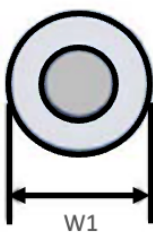


SA17

SiCore™ | Rechargeable Lithium-Ion Cell



6Ah Energy + Mid Power 21700 Cell



Specifications

Capacity	Typical	6000 mAh 21.6 Wh
	Minimum	5850 mAh 21.06 Wh
Cell Voltage	Nominal	3.60 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	12 A (2C)
	Max Pulse (≤ 30 seconds)	30 A (5C)
Charge Current	Typical	3 A (C/2)
	Maximum (0% to 100% SOC)	6 A (1C)
Temperature Range Ambient	Discharge	-20 to 60°C
	Charge	0 to 45°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 25 m Ω
Cycle Life	+0.5C / -1C, 4.2 to 2.75V	600 cycles
Weight		74 \pm 1 g
Packaging		21700 Cylindrical
Cathode		NMC
Energy Density	Gravimetric	300 Wh/kg
	Volumetric	830 Wh/l
Certifications*		UN38.3, IEC 62133*, UL 1642*

Dimensions

Size	L1	70.95 \pm 0.2mm
	W1	21.65 \pm 0.2mm

*3Q24

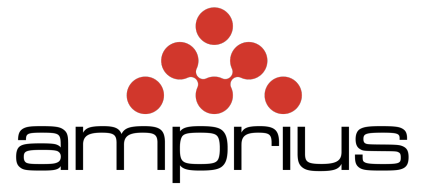
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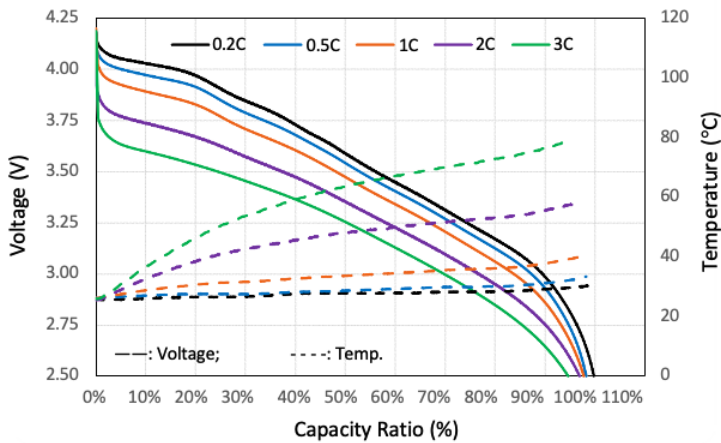
SiCore™ | Rechargeable Lithium-Ion Cell



6Ah Energy + Mid Power 21700 Cell

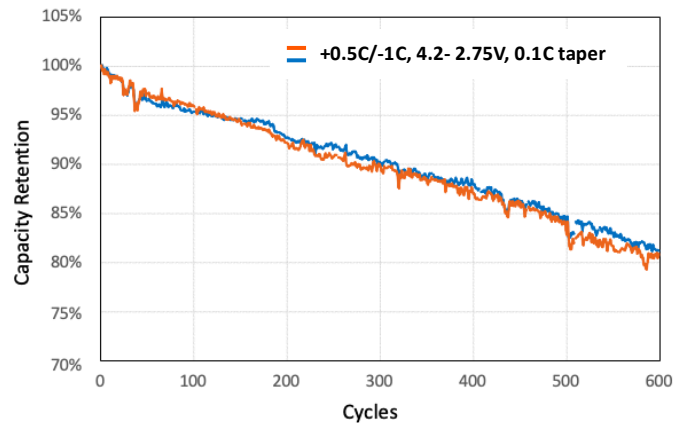
Discharge Rate Capability

At Room Temperature



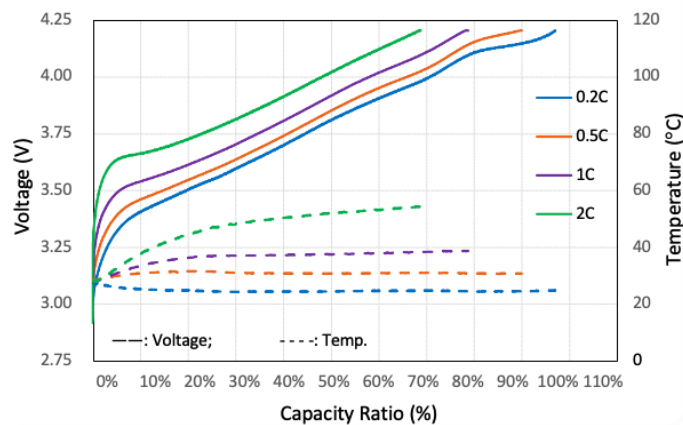
Cycle Life Performance

At Room Temperature



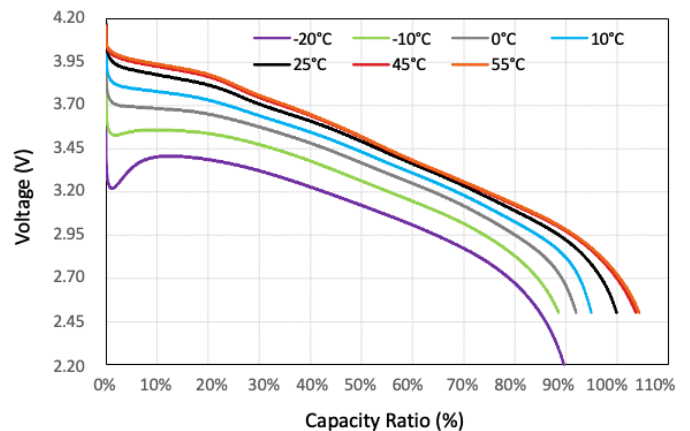
Charge Rate Capability

At Room Temperature at 0.2C, 0.5C, 1C, 2C



High/Low Temperature Discharge Performance

Discharge Capacity (Ah) @ 1C vs. Voltage (V) at various temperatures



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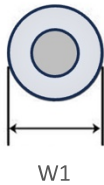
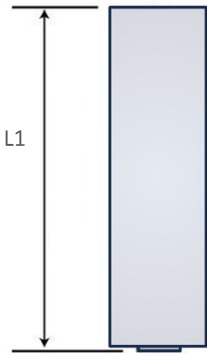


SA10

SiCore™ | Rechargeable Lithium-Ion Cell



4Ah Energy + Mid Power 18650 Cell



Specifications

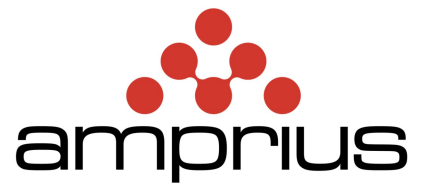
Capacity	Typical	4000 mAh 14.4 Wh
	Minimum	3850 mAh 13.86 Wh
Cell Voltage	Nominal	3.60 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	8 A (2C)
	Max Pulse (≤ 30 seconds)	20 A (5C)
Charge Current	Typical	2 A (C/2)
	Maximum (0% to 100% SOC)	4 A (1C)
Temperature Range Ambient	Discharge	-20 to 60°C
	Charge	0 to 45°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 25 m Ω
	DCIR	N/A
Cycle Life	+0.5C / -1C, 4.2 to 2.75V	600 cycles
Weight		48 \pm 2 g
Packaging		18650 Cylindrical
Cathode		NMC
Energy Density	Gravimetric	300 Wh/kg
	Volumetric	830 Wh/l
Certifications		UN 38.3, IEC 62133*, UL1642*, PSE*

Dimensions

Size	L1	65.05 \pm 0.15mm
	W1	18.35 \pm 0.15mm

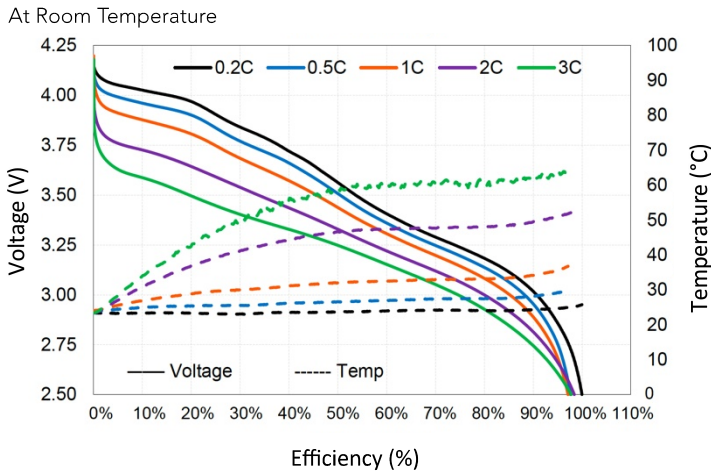
SA10

SiCore™ | Rechargeable Lithium-Ion Cell

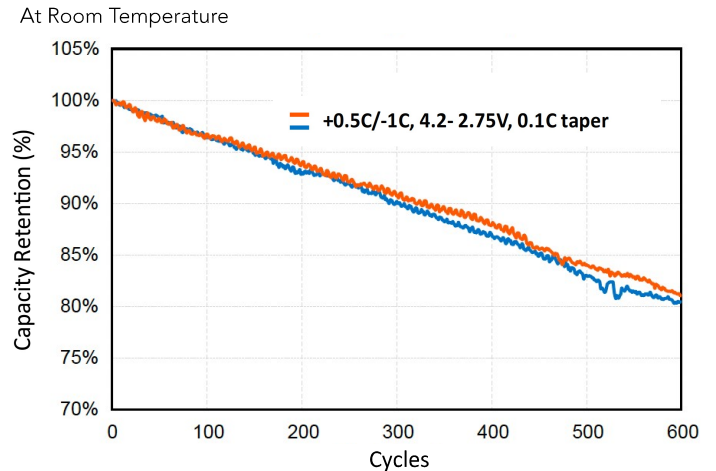


4Ah Energy + Mid Power 18650 Cell

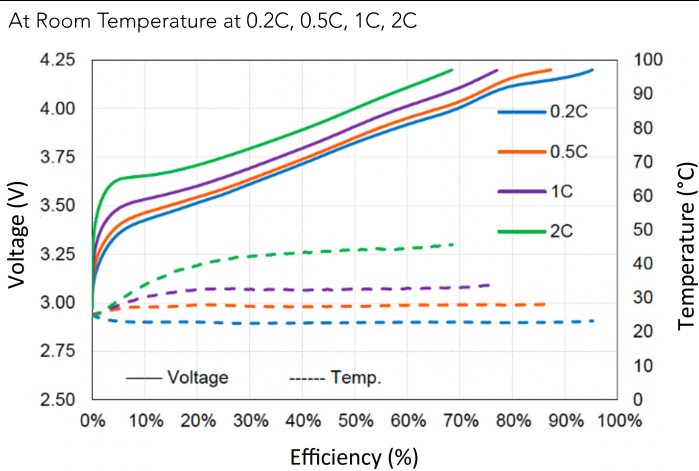
Discharge Rate Capability



Cycle Life Performance

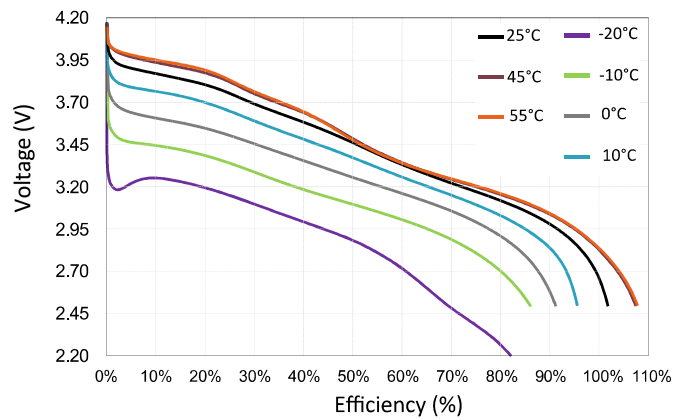


Charge Rate Capability



High/Low Temperature Discharge Performance

Discharge Capacity (Ah) @ 1C vs. Voltage (V) at various temperatures



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SA08

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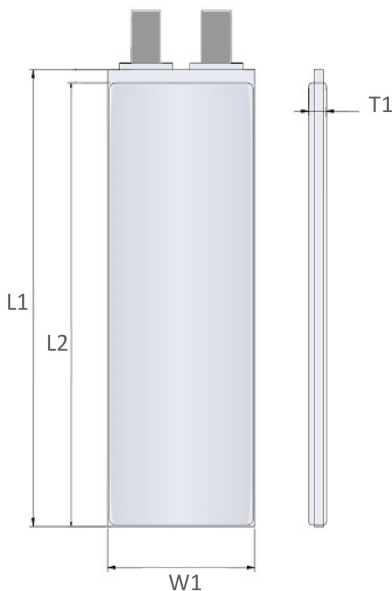
11.05 Ah Power Cell

Specifications

Capacity	Typical @ C/5	11050 mAh
		37.57 Wh
	Minimum	10800 mAh
		36.72 Wh
Cell Voltage	Nominal	3.40 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	54.0 A (5C)
	Max Pulse (≤ 30 seconds)	86.4 A (8C)
Charge Current	Typical	2.16 A (C/5)
	Maximum (0% to 100% SOC)	32.4 A (3C)
Temperature Range Ambient	Discharge	-20 to 60°C
	Charge	0 to 60°C
	Storage	-20 to 45°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	$\leq 6\text{m}\Omega$
	DCIR	N/A
Cycle Life	+1C/-3C, 100% DOD to 80% SOH	300 cycles
	+1C/-3C, 70% DOD to 90% SOH	700 cycles
Weight		106.5 \pm 2g
Packaging		Pouch
Cathode		NMC
Energy Density Including packaging	Gravimetric	360 Wh/kg
	Volumetric (@ 30% SOC)	800 Wh/l
Certifications		UN 38.3, IEC 62133

Dimensions

Size	L1	144.5 \pm 1.0mm
	L2	134.3 \pm 0.8mm
	W1	52.0 \pm 1.5mm
	T1 (@ 30% SOC)	6.25 \pm 0.25mm



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SA08

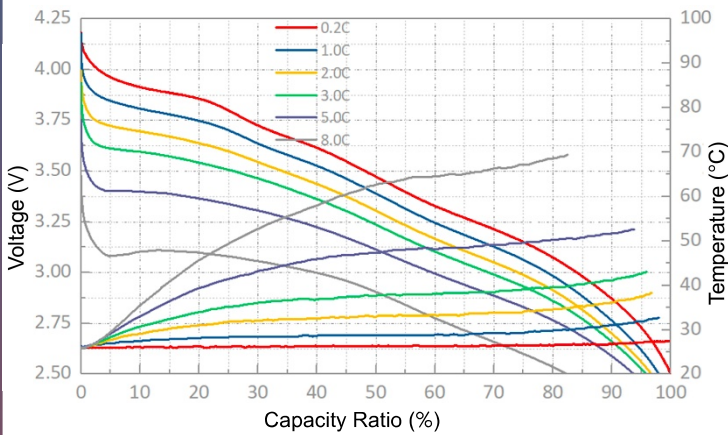
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11.05 Ah Power Cell

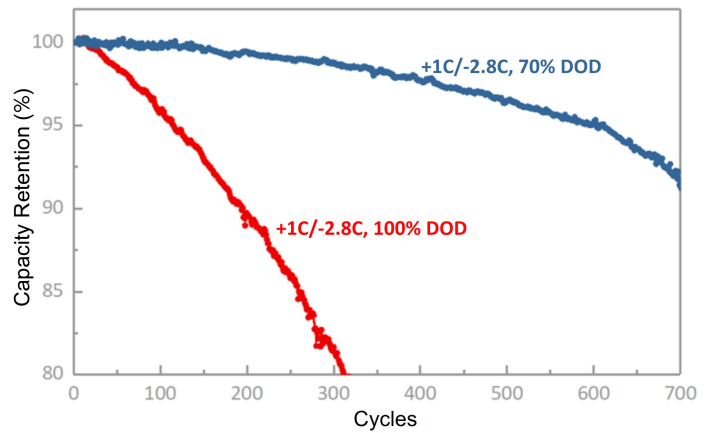
Discharge Rate Capability

At Room Temperature



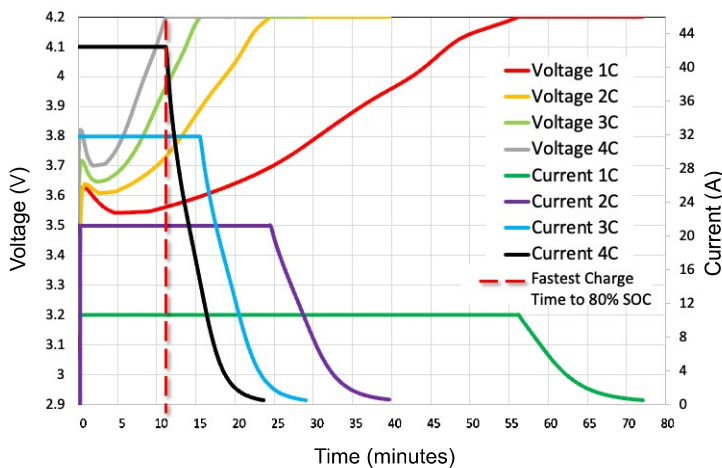
Cycle Life Performance

At Room Temperature



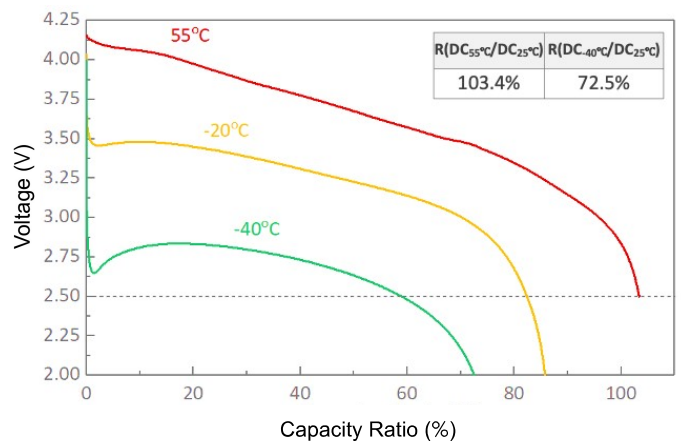
Charge Profiles

Room Temperature at 1C, 2C, 3C, & 4C Rates



High/Low Temperature Discharge Performance

Discharge Capacity (Ah) @ 0.2C Vs Voltage (V) at various temperatures



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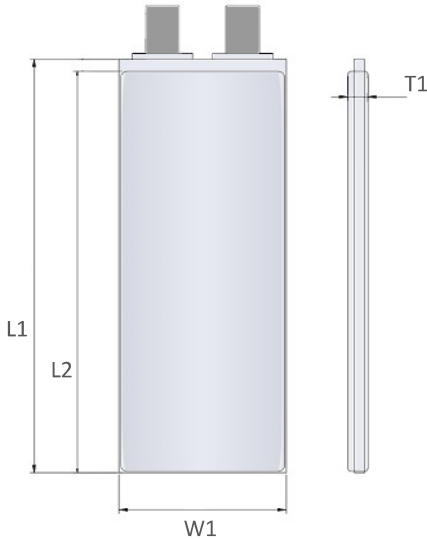
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SA04

SiCore™ | Rechargeable Lithium-Ion Cell



8.9 Ah Long Cycle Life Cell



Specifications

Capacity	Typical @ C/5	8900 mAh
		32.04 Wh
	Minimum	8767 mAh
		31.56 Wh
Cell Voltage	Nominal	3.60 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	26.7 A (3C)
	Max Pulse (≤ 30 seconds)	26.7 A (3C)
Charge Current	Typical	1.78 A (C/5)
	Maximum (0% to 100% SOC)	4.45 A (C/2)
Temperature Range Ambient	Discharge	-20 to 55°C
	Charge	0 to 55°C
	Storage	-20 to 30°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 8 m Ω
	DCIR	N/A
Cycle Life	+1C/-1C, 100% DOD to 80% SOH	1400 cycles
	+1C/-1C, 87% DOD to 80% SOH	3000 cycles
Weight		102.8 \pm 1g
Packaging		Pouch
Cathode		NMC
Energy Density Including packaging	Gravimetric	320 Wh/kg
	Volumetric (@ 30% SOC)	680 Wh/l
Certifications		UN 38.3

Dimensions

Size	L1	139.1 \pm 0.5mm
	L2	133.0 \pm 1.2mm
	W1	52.1 \pm 1.2mm
	T1 (@ 30% SOC, Fresh)	6.5 \pm 0.3mm

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SA04

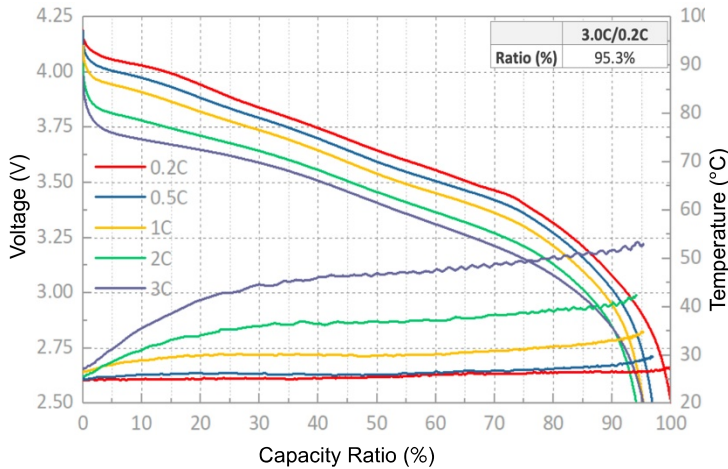
SiCore™ | Rechargeable Lithium-Ion Cell



8.9 Ah Long Cycle Life Cell

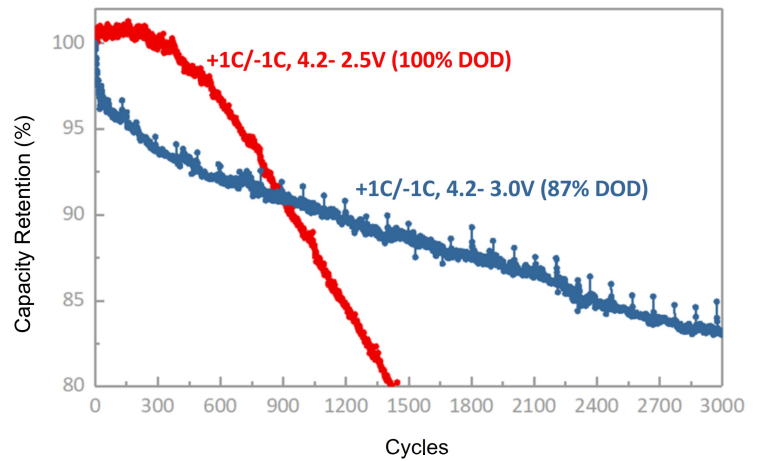
Discharge Rate Capability

At Room Temperature



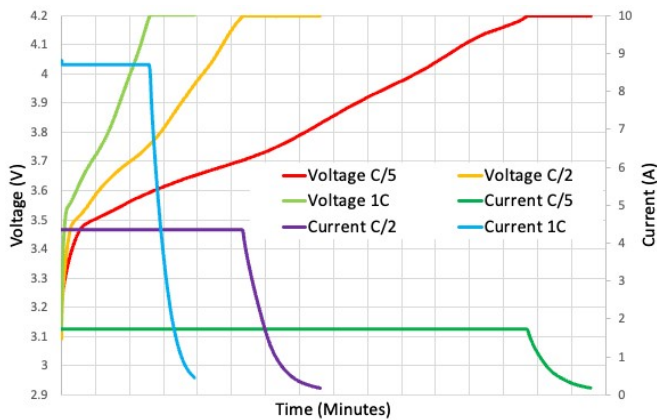
Cycle Life Performance

At Room Temperature



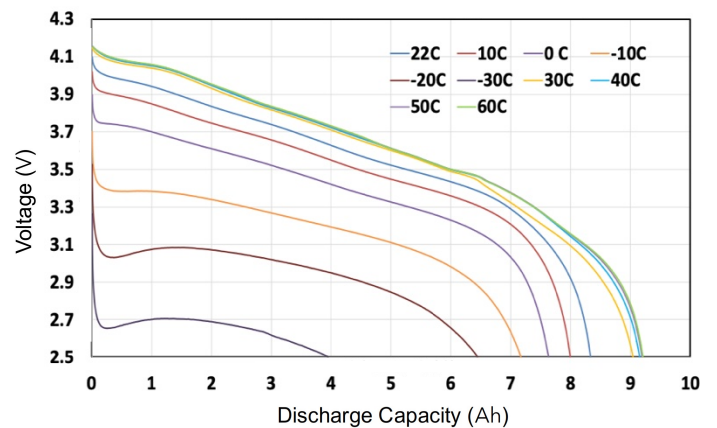
Charge Rate Profiles

Room temperature at C/5, C/3 & 1C Rates



High/Low Temperature Discharge Performance

Discharge Capacity (Ah) @ 0.2C vs. Voltage (V) at various temperatures



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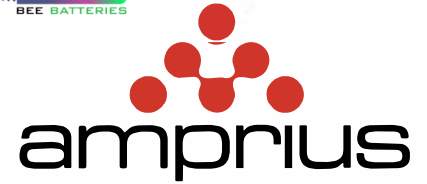
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SA03

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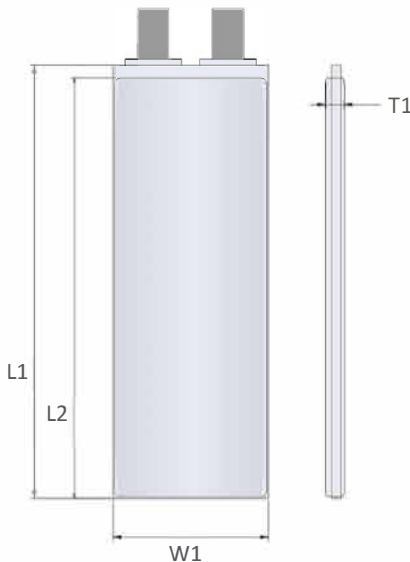
11.9 Ah Energy Cell

Specifications

Capacity	Typical @ C/5	11840 mAh
		40.26 Wh
	Minimum	11600 mAh
		39.44 Wh
Cell Voltage	Nominal	3.40 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	11.6 A (1C)
	Max Pulse (≤ 30 seconds)	34.8 A (3C)
Charge Current	Typical	2.36 A (C/5)
	Maximum (0% to 100% SOC)	3.93 A (C/3)
Temperature Range Ambient	Discharge	-20 to 55°C
	Charge	10 to 55°C
	Storage	-20 to 45°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 20 m Ω
	DCIR	N/A
Cycle Life	+0.3C/-1C, 100% DOD to 80% SOH	300 cycles
	+0.3C/-1C, 70% DOD to 90% SOH	700 cycles
Weight		102.0 \pm 2g
Packaging		Pouch
Cathode		NMC
Energy Density Including packaging	Gravimetric	400 Wh/kg
	Volumetric (@ 30% SOC)	872 Wh/l
Special Note	External clamping of 15 PSI is recommended	
Certifications	UN 38.3	

Dimensions

Size	L1	139.0 \pm 0.6mm
	L2	134.3 \pm 0.8mm
	W1	52.5 \pm 1.5mm
	T1 (@ 30% SOC)	6.32 \pm 0.25mm



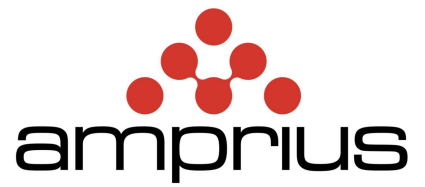
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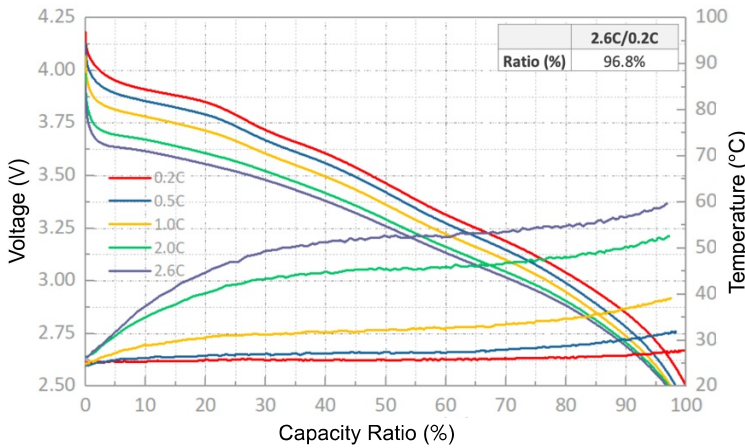
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11.9 Ah Energy Cell

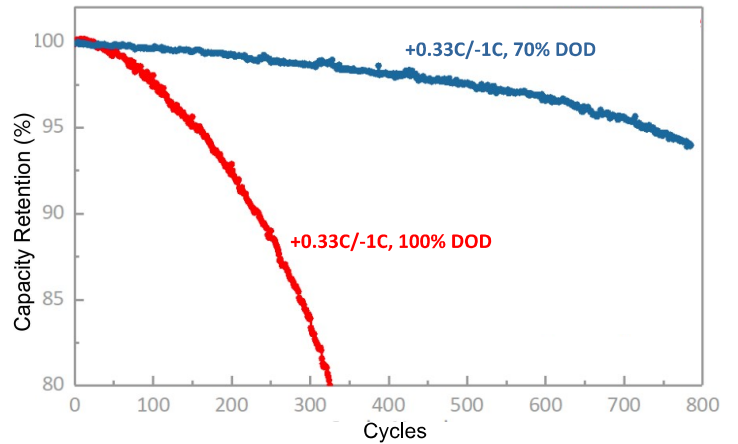
Discharge Rate Capability

At Room Temperature



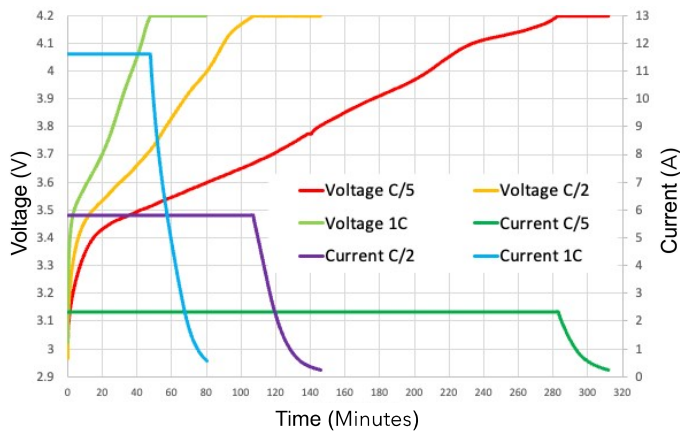
Cycle Life Performance

At Room Temperature



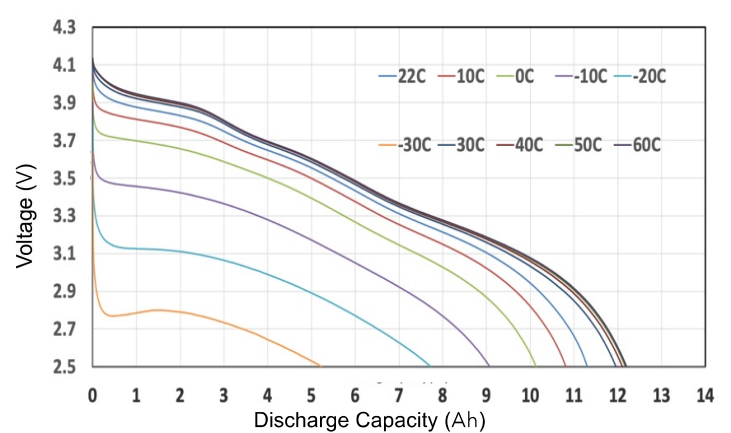
Charge Rate Profiles

Room Temperature at C/5, C/2, 1C



High/Low Temperature Discharge Performance

Discharge Capacity (Ah) @ 0.2C vs. Voltage (V) at various temperatures



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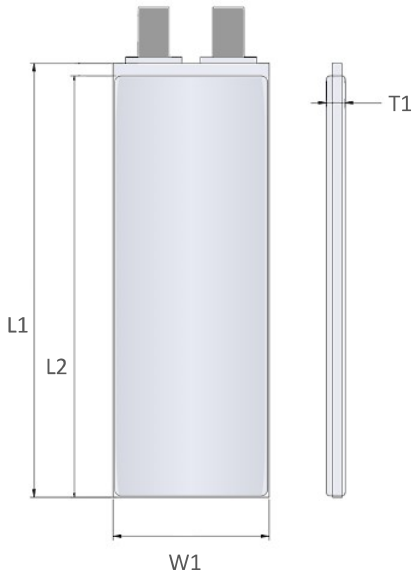


SA02

SiCore™ | Rechargeable Lithium-Ion Cell



11.25 Ah Energy + Power Balanced Cell



Specifications

Capacity	Typical @ C/5	11250 mAh
		39.38 Wh
	Minimum	11000 mAh
		38.50 Wh
Cell Voltage	Nominal	3.50 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	33.0 A (3C)
	Max Pulse (≤ 30 seconds)	55.0 A (5C)
Charge Current	Typical	2.20 A (C/5)
	Maximum (0% to 100% SOC)	11.0 A (1C)
Temperature Range Ambient	Discharge	-20 to 55°C
	Charge	0 to 55°C
	Storage	-20 to 30°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 10 m Ω
	DCIR	N/A
Cycle Life	+1C/-1C, 100% DOD to 80% SOH	700 cycles
	+1C/-1C, 90% DOD to 80% SOH	1000 cycles
Weight		111.2 \pm 2g
Packaging		Pouch
Cathode		NMC
Energy Density Including packaging	Gravimetric	355 Wh/kg
	Volumetric (@ 30% SOC)	805 Wh/l
Certifications		UN 38.3, IEC 62133, BIS

Dimensions

Size	L1	139.3 \pm 0.4mm
	L2	134.3 \pm 0.8mm
	W1	52.1 \pm 1.2mm
	T1 (@ 30% SOC)	6.74 \pm 0.25mm

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SA02

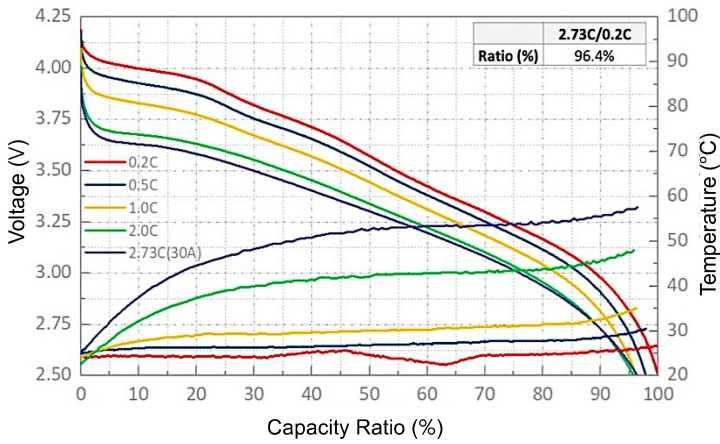
SiCore™ | Rechargeable Lithium-Ion Cell



11.25 Ah Energy + Power Balanced Cell

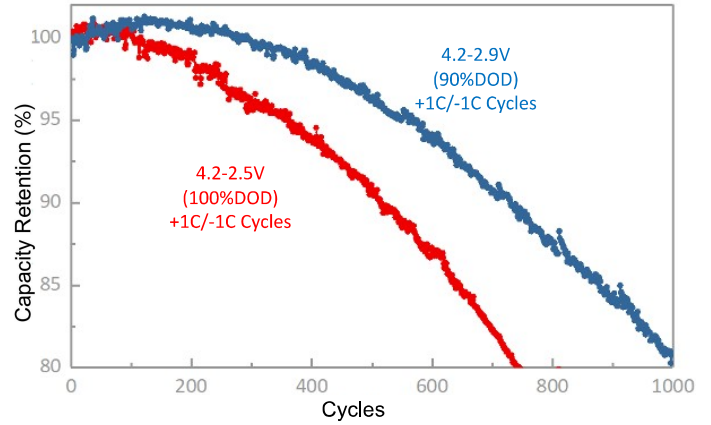
Discharge Rate Capability

At Room Temperature



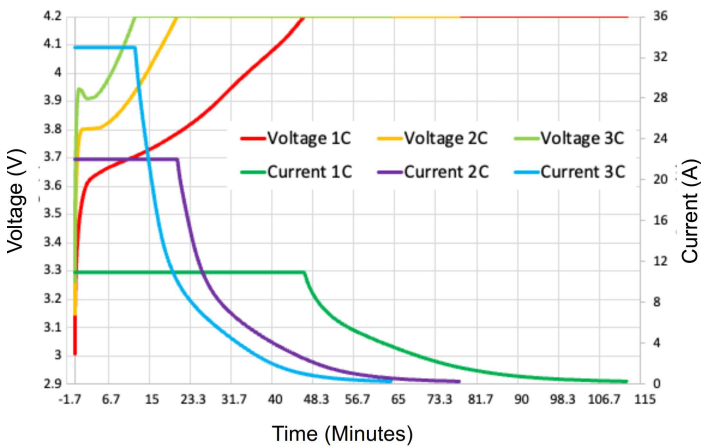
Cycle Life Performance

At Room Temperature



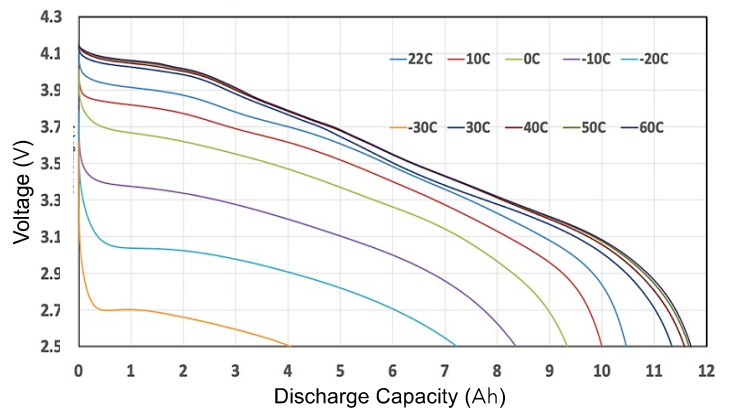
Charge Rate Profiles

Room Temperature at 1C, 2C, 3C



High/Low Temperature Discharge Performance

Discharge Capacity (Ah) @ 0.2C vs. Voltage (V) at various temperatures



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