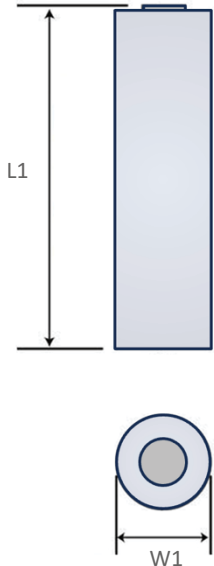
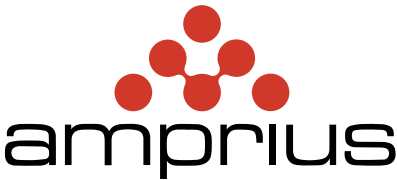


SA110

SiCore™ | Rechargeable Lithium-Ion Cell



4Ah Energy + Mid Power 18650 Cell

Specifications

Capacity	Typical @ C/10	4000 mAh
		14.08 Wh
	Minimum	3850 mAh
		13.55 Wh
Cell Voltage	Nominal	3.52 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	12.0 A (3C)
	Max Pulse (≤ 30 seconds)	20.0 A (5C)
Charge Current	Typical	2.0 A (C/2)
	Maximum (0% to 100% SOC)	4 A (1C)
Temperature Range Ambient	Discharge	-20 to 60°C
	Charge	0 to 45°C
	Storage	-20 to 30°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 25 mΩ
Cycle Life	+0.5C/-1.0C, (4.2V to 2.75V) to 80% SOH	500 cycles
Weight		48.0 ± 2.0g
Packaging		Cylindrical
Cathode		NMC
Energy Density Including packaging	Gravimetric (@ 0.2C Discharge)	290 Wh/kg
	Volumetric (@ 30% SOC)	805 Wh/L
Certifications	UN38.3, IEC62133*, BIS*, CE*	

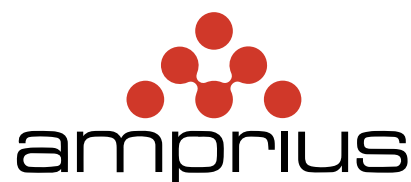
Dimensions

Size	L1	65.05 ±0.15mm
	W1	18.35 ±0.15mm

*Q4 2025

SA110

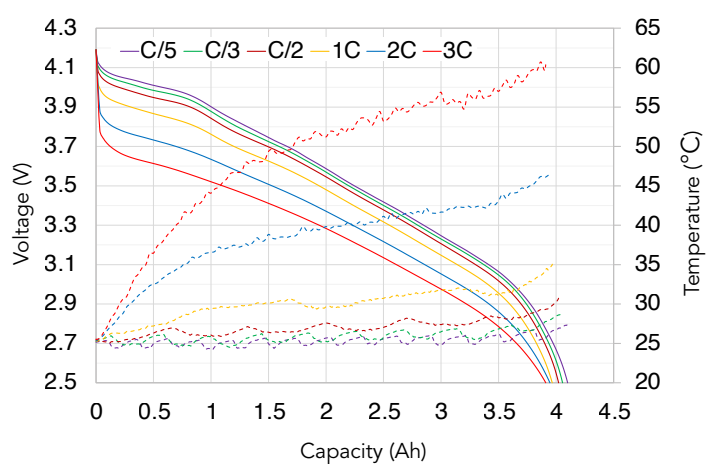
SiCore™ | Rechargeable Lithium-Ion Cell



4Ah Energy + Mid Power 18650 Cell

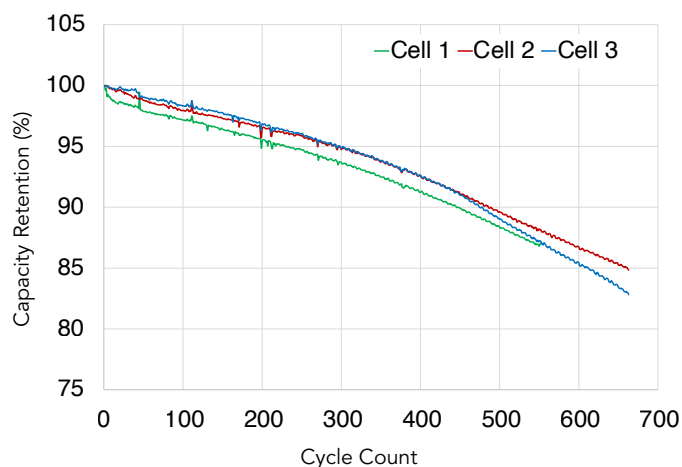
Discharge Rate Capability

0.2C, 0.33C, 0.5C, 1C, 2C, 3C at Room Temperature



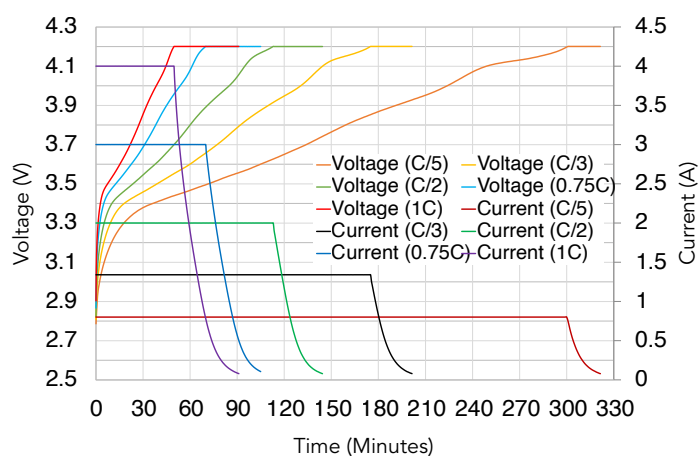
Cycle Life Performance

+0.5C/1C, 2.75V EoD at Room Temperature



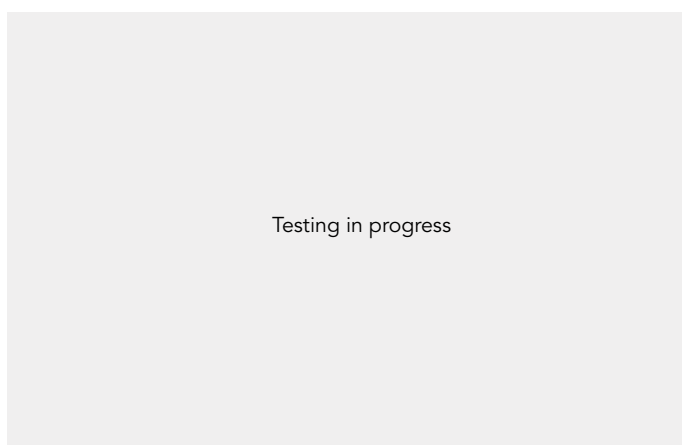
Charge Rate Profiles

0.2C, 0.33C, 0.5C, 0.75C, 1C at Room Temperature



High/Low Temperature Discharge Performance

Discharge Capacity at 0.2C at Various Temperatures



Technical Data Sheet | AMP-TDS-SA110-R1

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