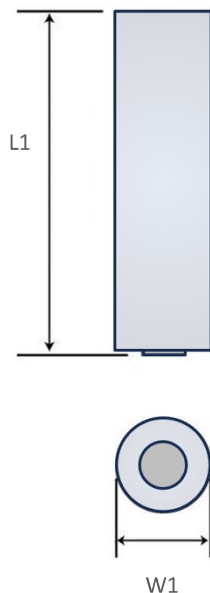


SA10

SiCore™ | Rechargeable Lithium-Ion Cell



4Ah Energy + Mid Power 18650 Cell



Specifications

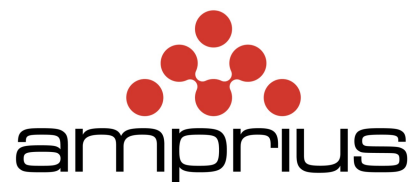
Capacity	Typical	4000 mAh
		14.4 Wh
	Minimum	3850 mAh
		13.86 Wh
Cell Voltage	Nominal	3.60 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	8 A (2C)
	Max Pulse (≤ 30 seconds)	20 A (5C)
Charge Current	Typical	2 A (C/2)
	Maximum (0% to 100% SOC)	4 A (1C)
Temperature Range Ambient	Discharge	-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

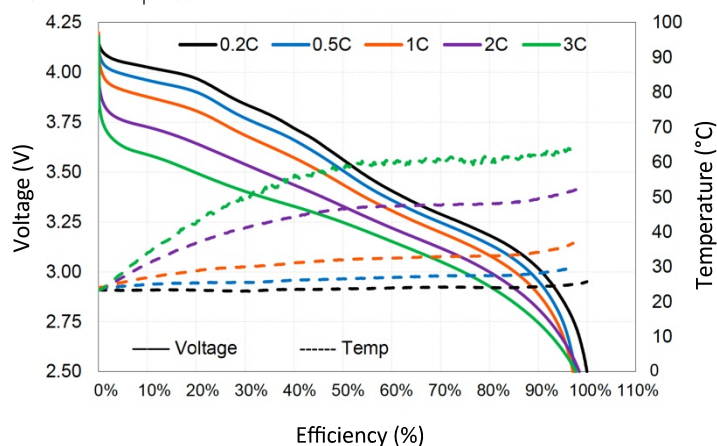
SiCore™ | Rechargeable Lithium-Ion Cell



4Ah Energy + Mid Power 18650 Cell

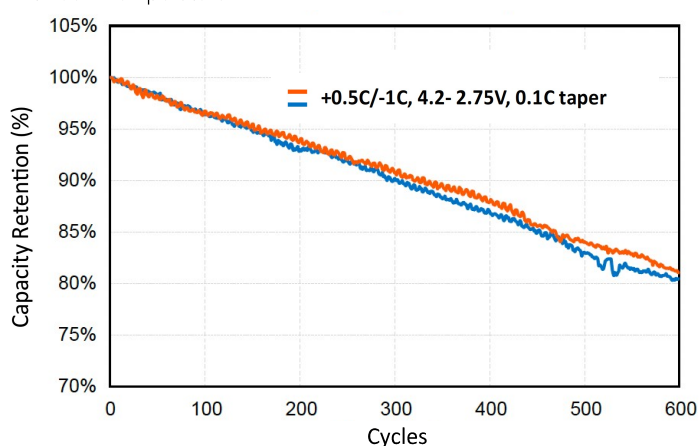
Discharge Rate Capability

At Room Temperature



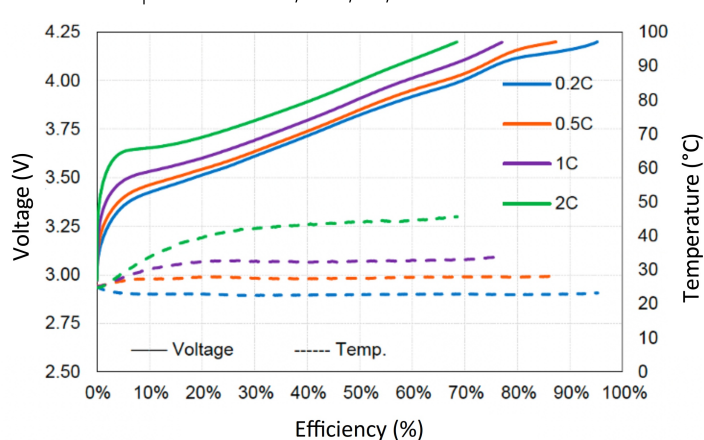
Cycle Life Performance

At Room Temperature



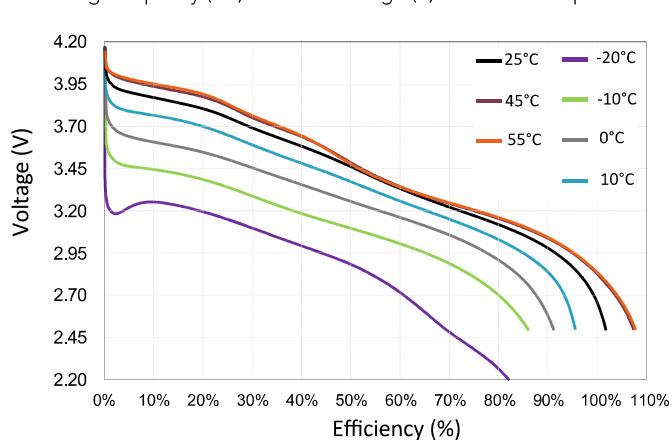
Charge Rate Capability

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



Technical Data Sheet | AMP-TDS-SA10-R1

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