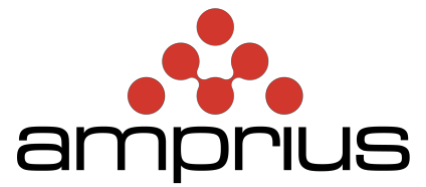
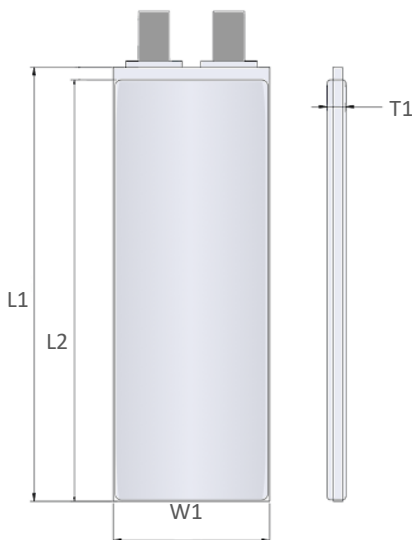
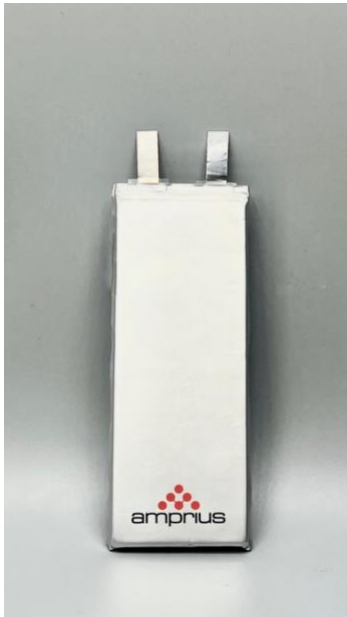


# SA02

Rechargeable Lithium-Ion Cell



## 11 Ah Energy + Power Balanced Cell



### Specifications

<b>Capacity</b>	Typical @ C/5	11250 mAh
		39.38 Wh
	Minimum	11000 mAh
		38.50 Wh
<b>Cell Voltage</b>	Nominal	3.50 V
	Charge	4.20 V
	Discharge	2.50 V
<b>Discharge Current</b>	Max Continuous	33.0 A (3C)
	Max Pulse ( $\leq 30$ seconds)	55.0 A (5C)
<b>Charge Current</b>	Typical	2.20 A (C/5)
	Maximum (0% to 100% SOC)	11.0 A (1C)
<b>Temperature Range</b>	Discharge	-20 to 55°C
	Charge	0 to 55°C
	Storage	-20 to 30°C
<b>Internal Resistance</b>	ACIR (1 kHz @ 30% SOC)	$\leq 10$ m $\Omega$
	DCIR (30 sec, 30A @ 50% SOC)	$\leq 10$ m $\Omega$
<b>Cycle Life</b>	+1C/-1C, to 80% SOH	650 cycles
<b>Weight</b>		111.2 $\pm$ 2g
<b>Packaging</b>		Pouch
<b>Cathode</b>		NMC
<b>Energy Density</b> Including packaging	Gravimetric	355 Wh/kg
	Volumetric (@ 30% SOC)	805 Wh/l

### Dimensions

<b>Size</b>	L1	139.3 $\pm$ 0.4mm
	L2	134.3 $\pm$ 0.8mm
	W1	52.1 $\pm$ 1.2mm
	T1 (@ 30% SOC, Fresh)	6.74 $\pm$ 0.25mm

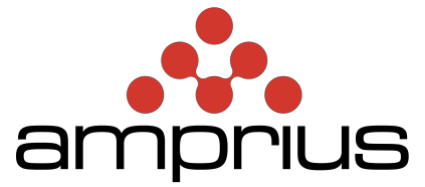
Technical Data Sheet | AMP-TDS-SA02-R2

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# SA02

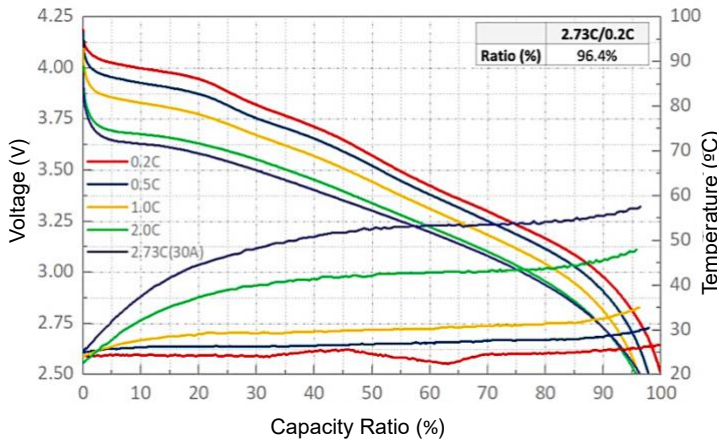
Rechargeable Lithium-Ion Cell



## 11Ah Energy + Power Balanced Cell

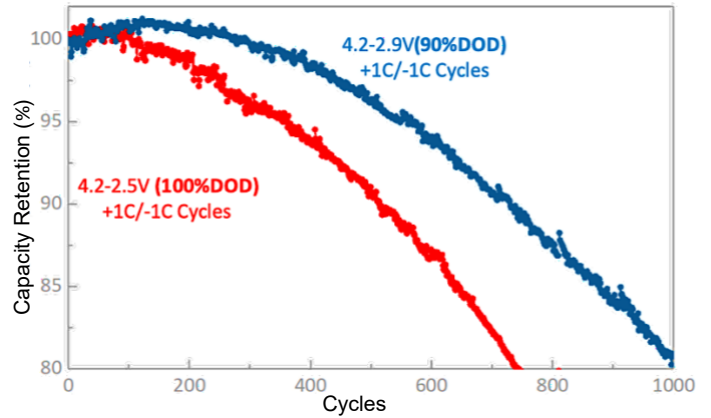
### Discharge Rate Capability

At Room Temperature



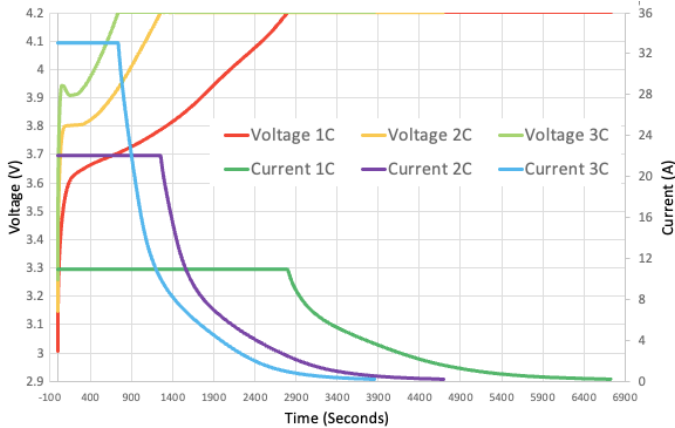
### Cycle Life Performance

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

