

Physical Characteristics



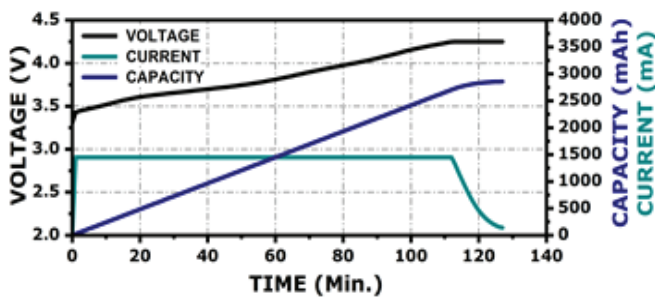
Diameter	18.30 +0.10 / - 0.20 mm
Height	65 ± 0.20 mm
Weight	44.5 ± 0.7 g

Performance Specification

Discharge Capacity	Maximum: 2950 mAh Typical: 2900mAh Minimum: 2850mAh	
Nominal Voltage	3.68V	
Energy Density (Gravimetric - Volumetric)	244 Wh/kg - 618 Wh/L	
Charge	Standard Charge Current	1450mA
	Max. Charge Current	2900mA (0°C - 60°C) 4000mA (10°C - 50°C)
	End Charging Voltage	4.25V
	Cut-off Current	140 mA
	Discharge	Standard Discharge Current
Discharge	Max. Continuous Discharge Current	25000mA
	Cut of Voltage	2.5V
Initial AC Impedance (ACIR)	≤ 20mΩ	
Operating Temperature (Require Cell Surface Temperature Control)	Charge	0°C / 60°C
	Discharge	-30°C / 80°C
Storage temperature Shipping State 30% SOC	Within 1 Month	-30°C / 60°C
	1-3 Month	-30°C / 45°C
	3-12 Month	-30°C / 23°C

Charge Characteristics

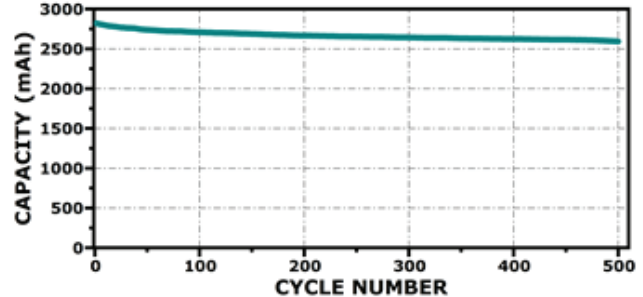
Charge: 0.5C CC-CV at 25°C



Cycle Life to 90% of initial capacity

Charge: 0.5C CC-CV at 25°C

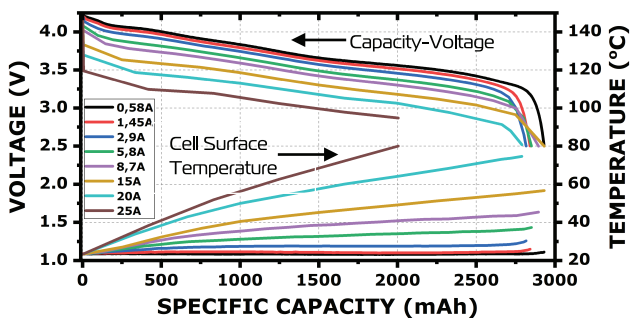
Discharge: 1C CC at 25°C



C-rate Dependency of Discharge Performance

Charge: 0.5C CC-CV at 25°C

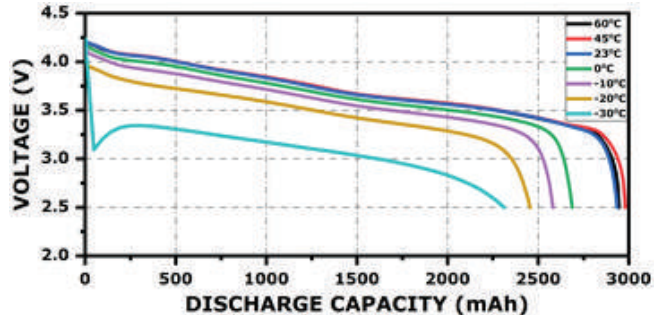
Discharge: CC at 25°C – Cell temperature cut-off 80°C



Temperature Dependency of Discharge Performance

Charge: 0.5C CC-CV at 25°C

Discharge*: CC 0.2C for each temp. except -30°C (1C)



***INR18650A28 has been certified in UN 38.3, IEC62133-2, IEC61960, IEC62619 for 4.2V charging voltage – Certifications including UL1642 for 4.25V charging voltage are in process.**

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Lithium Ion Rechargeable Cell
Product Specification
ASPİLSAN INR18650A28



ASPİLSAN Enerji A.Ş.
is a Turkish Armed Forces Foundation company.