

DATA SHEET

CC2300 3.7V 2.3Ah 8.5Wh Rechargeable Lithium Ion Credit Card Battery

Specifications

Model	CC2300	
Capacity	0.2C (Typical)	2300mAh (1)(2)
	0.2C (Minimum)	2185mAh (1)(2)
Charging	Voltage	4.20V ⁽⁸⁾
	Current (Typical)	1150mA (0.5C)
	Current (Maximum)	2000mA ⁽⁸⁾
	Temperature	0°C to +45°C
Discharging	Voltage (Average)	3.7V ⁽²⁾
	Cut-Off Voltage	3.0V (7)
	Current (Maximum)	2A ⁽⁸⁾
	Temperature	-10°C to +50°C (4)(6)
Storage	Temperature	-20°C to +60°C
Cycle Life	>300 (Typ) ⁽¹⁾⁽³⁾⁽⁵⁾⁽⁶⁾	
Dimensions	Length	85.6mm ± 0.20mm
	Width	54.0mm ± 0.20mm
	Thickness	9.1mm ± 0.20mm
Weight	<65g	
Fuel Gauge	Texas Instruments BQ27541-G1 Impedance Tracking fuel gauge with I ² C communication	
Termination	7 way Tyco connector 1827684-1 (mates with Tyco 1827654-1 or -2)	
Certification	Transportation	ST/SG/AC.10.11 Rev5 (UN38.3 T1-T8 Tests)
	Safety	IEC62133:2012
	CE Marking	EMC Directive 2004/108/EC

Notes

- 1. CVCC 4.20V, 0.5C charge to 0.05C current taper at +20°C.
- 2. 0.2C discharge to 3.0V within 1 hour of charge at +20°C.
- 3. 0.5C discharge to 3.0V within 1 hour of charge at +20°C.
- 4. Discharge performance degrades at lower temperatures, empirical testing in application is suggested to determine suitability.
- 5. To 80% of 0.2C minimum rated capacity.
- 6. Cycle life degrades at higher operating temperatures, empirical testing in application suggested to determine suitability.
- 7. Application should terminate discharge below this level.
- 8. Do not exceed this level.

The CC2300 is part of the Entellion range. Entellion products are smart, innovative portable power products, designed to meet the emerging needs of feature-laden devices in professional markets. Created and manufactured by Accutronics, Entellion combines our expertise in custom OEM requirements and market trends. Entellion products are available off the shelf and can be customised for your application, getting you to market quickly and confidently.

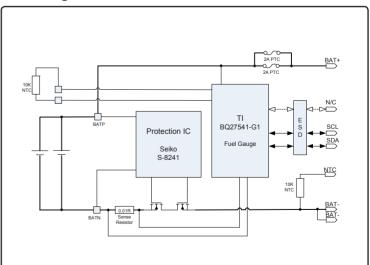
Features

- 3.7V high energy density Lithium Ion technology
- Credit card footprint (54.0mm x 85.6mm)
- Impedance Tracking fuel gauge with I²C communication
- Active protection circuitry (OV, UV, OC, SC)
- · Redundant passive over-current protection
- 7 position Tyco connector interface
- Tough plastic enclosure
- IEC62133:2012 (safety) & UN38.3 (transportation) compliant
- CE marked (EMC/ESD compliance)
- Also available as a 3800mAh model (14.7mm high CC3800)
- Customisation to labelling, case colour and firmware possible

CC2300



Block Diagram

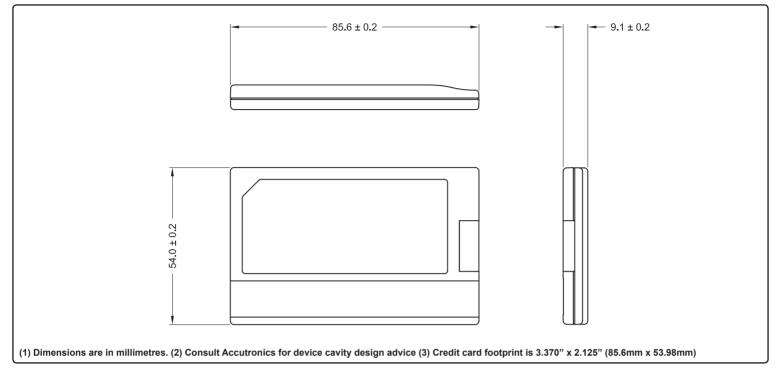


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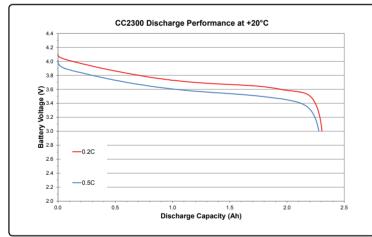
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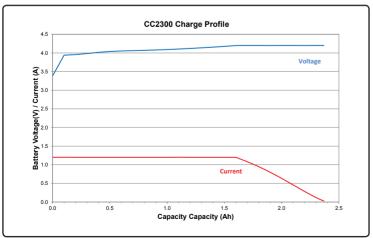
Mechanical Drawing



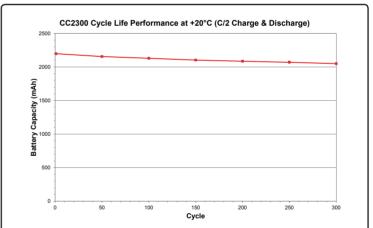
Typical Discharge Performance at +20°C



Typical Charge Performance



Typical Cycle Life Performance



Accessories



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