Preliminary Cell **Data Sheet**

3D Silicon™ Lithium-ion Rechargeable Cell

Model **EX1-395578A**

Applications, Features & Benefits

Designed for smartphones and laptops

Ultra-high energy density

Long cycle life

Rugged cell architecture

Compatible with standard lithium-ion battery safety circuits and battery management systems

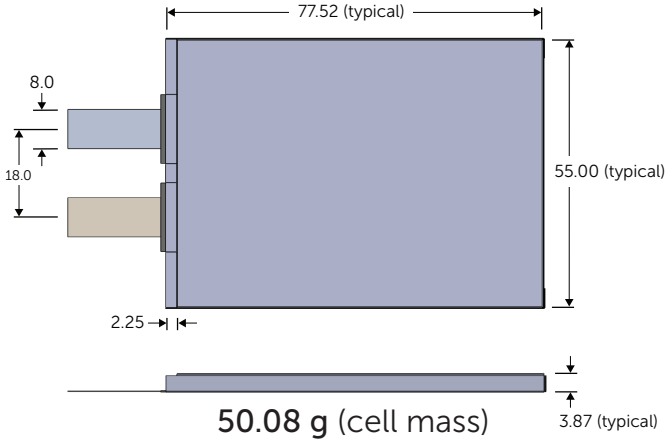
Cell Characteristics

Capacity[1]	
Typical	4.10 Ah
Energy Density (typical)	
Volumetric	900 Wh/l
Gravimetric	297 Wh/kg
Cycle Life (minimum cycles)[2]	
25°C to 80% capacity retention	500 cycles
45°C to 60% capacity retention	500 cycles
Cell Voltage	
Charge cut-off	4.35 V
Discharge cut-off	2.70 V
Average discharge[1]	3.62 V
Energy	
Typical	14.85 Wh

[1]**Test condition:** 0.1C discharge rate

[2]**Test condition:** 0.7C charge to 4.35 V with 0.04C cutoff, 0.7C discharge to 2.7 V

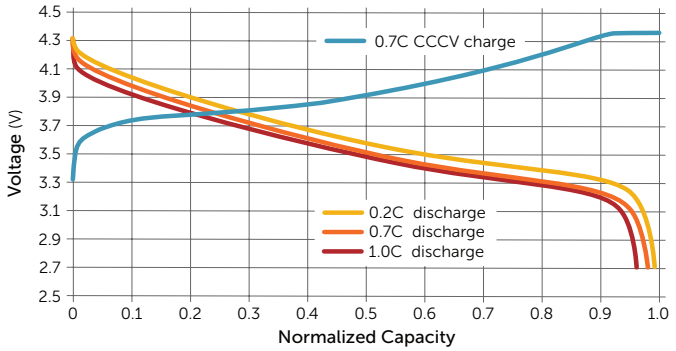
Cell Dimensions



50.08 g (cell mass)

All dimensions are millimeters (mm)

Charge & Discharge Profiles



Charge curve is normalized to 0.7C charge, and discharge curves are normalized to 0.1C discharge (not shown).

Charge Conditions	
Constant current (0.7C)	2.87 A
Taper current cut-off (0.04C)	166 mA
Discharge Conditions	
Continuous current (0.7C)	2.87 A

The information on this Preliminary Cell Data Sheet is believed to be accurate, is typical of the product in production, and is not a guarantee of performance. Specifications and characteristics are subject to change without notice.

Contact Enovix at **sales@enovix.com** for specific information regarding this cell.