

**BATTERY ARRANGEMENT GUESSTIMATES**

Pack Max Voltage	399
Cell Nominal Voltage	3.6
Cell Max Voltage	4.2
# Cells in Series Stack	95
"Extra" Cells per Series Stack	0
Total Cells	7030
# Parallel stacks	74
Cell Capacity (mAh)	3100
Pack Capacity (kWh)	85
Cell Weight (lbs)	0.10
Weight of Cells in Pack (lbs)	705
Pack Voltage (full discharge)	238

*spares? Higher max voltage to improve life?*

*to achieve high current at voltage (speed) for motor*

*but what voltage is assumed for Wh capacity?*

*uses average of nominal and max voltage*

		Current (amps)					
Current@voltage for Power		300	320	340	360	380	400
310		1033	969	912	861	816	775

Cell Used <http://www.panasonic.com/industrial/includes/pdf/ACA4000CE254-NCR186>  
 (per TeslaTap.com)

NOTE: sophisticated charge/discharge control could change peak values and cycle life a bunch



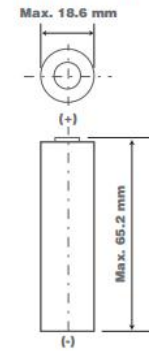
**Features & Benefits**

- High energy density and voltage
- High discharge rate capability
- Ideal for medical equipment, memory storage and backup power applications

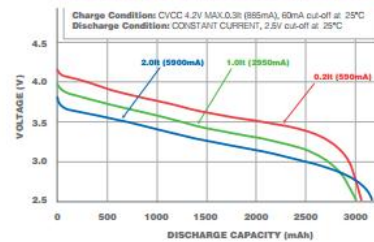
**Specifications**

Capacity: 3,100 mAh Typical  
 Nominal Voltage: 3.6V  
 Weight: Approximately 45.5g

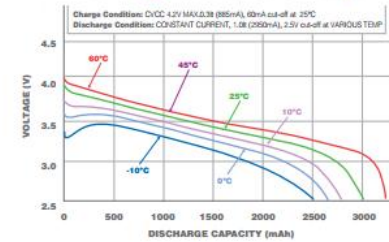
**Dimensions**



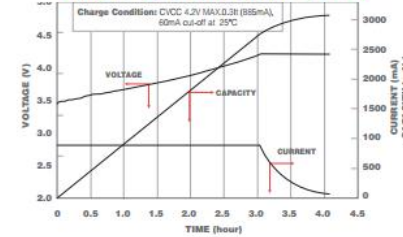
**Discharge Characteristics (25°C)**



**Discharge Characteristics (various)**



**Charge Characteristics (25°C)**



**Cycle Life Characteristics (25°C)**

