



### Battery Features

- High capacity Nickel Manganese Cobalt (NMC) pouch cell
- High energy density, low cost and long cycle life
- Stable energy for applications requiring high power
- Low self discharge rate and low maintenance
- Available in a wide range of sizes and capacities

## The Vertical Partners West Advantage

Our long history of designing battery and charging systems makes VPW your ideal power management partner for OEM projects. We are a U.S. based supplier with multiple highly vetted mass manufacturing partner facilities in Asia. Working closely with your design team, VPW delivers just the right solution designed to fit your application and budget.

Let our experience with advanced chemistries, sophisticated battery charging & management systems and our expertise with complex assemblies power your project. Leverage our vast buying power, door-to-door import ease and low minimum order quantities for your next premium battery or charger project.

Performance Characteristics	Typical
Capacity	37Ah
Voltage (Nominal)	3.65V
Discharge Energy	135.05Wh
Weight	0.83 kg ± 0.02
Specific Energy	162.7Wh/kg
Max Cont. Discharge Current @ 25°C	111A
Max Pulse Discharge Current @ 25°C, 30s	185A
DC Resistance	≤2 mΩ
Peak Power	≥675.25W
Specific Power	≥813W/kg

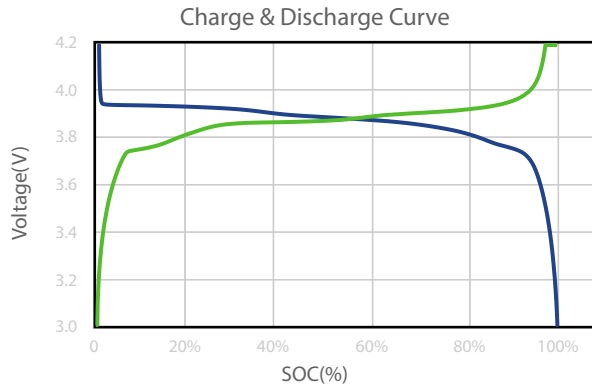
Cycle Life	Typical
100% DOD Cycles @ 25°C, 0.5C/0.5C	≥2000 cycles*

\*Cycle life to 80% of rated capacity

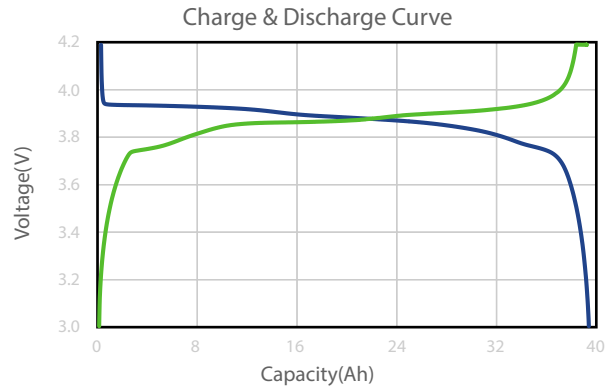
Operational Range	Typical
Upper Voltage Limit	4.2V
Lower Voltage Limit	2.75V
Charge Temperature Range	0°C ~ 45°C
Discharge Temperature Range	-20°C ~ 50°C

# Battery Characteristics

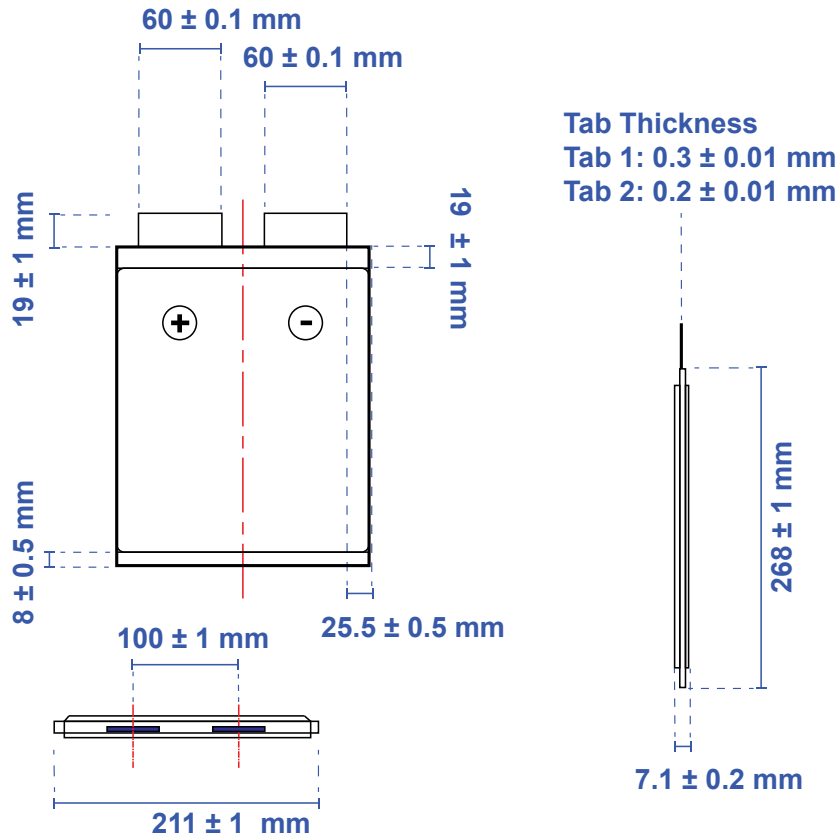
Charge/Discharge Curve - SoC %



Charge/Discharge Curve - Capacity/Ah



## Mechanical Characteristics



14028 North Ohio Street, Rathdrum, Idaho 83858 • (800) 705-0620

Email: [sales@vpwllc.com](mailto:sales@vpwllc.com)  
 Web: [vpwllc.com](http://vpwllc.com)

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