



SPECIFICATIONS

Long Life Lithium-ion Cell
NMC18650-27PL5

Features

- Very High Lifetime Capacity
- High Specific Power
- High Specific Energy
- High Reliability
- High Safety
- Automotive Class

Applications

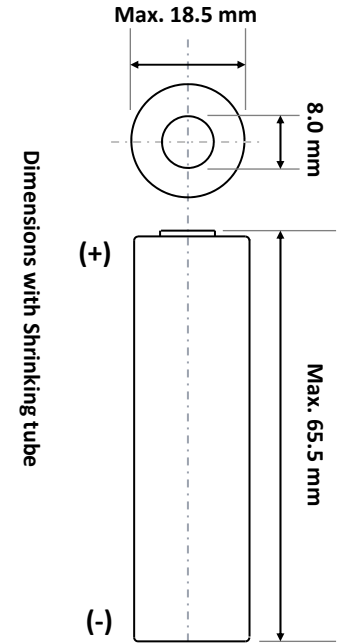
- Durable EV, HEV, PHEV
- Durable e-Moped, eBike
- Reliable e-Wheelchair
- Sturdy electrical golf cart
- Power Hobby, Vaping, Mods
- Portable Motorized Medical Equipment
- Long Life High Power Energy Storage System

Specifications*

Nominal Capacity	Discharge at 25 °C at 25 °C, 2.7 A at 25 °C, 13 A	2.6 Ah (Minimum) 2.7 Ah (Typical) 3.0 Ah (Typical)
Lifetime Capacity	Watch chart below	2,100 Ah (Typical)**
Nominal Voltage	Discharge average	3.7 V
Charging	CC-CV, 4.2 V, 54 mA cut-off	0.5C (Standard) 1.0C (Rapid)
Discharging	2.5 V cut-off	13 A (Max. Cont.)
Battery Body Temperature	Charge Discharge Storage	0 ~ 45 °C -20 ~ 60 °C -20 ~ 45 °C
Weight	Average	44.0 g ± 5%

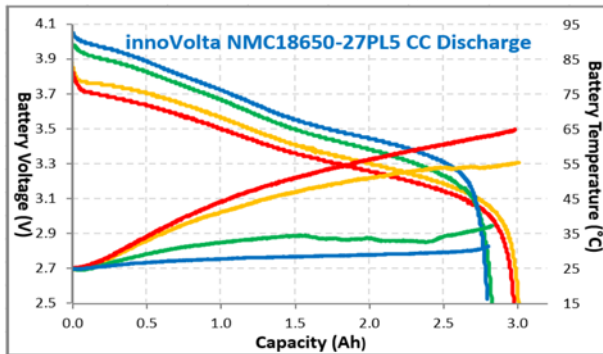
* All test data are averaging with 5 samples obtained from 3 month inventory.
** 1,490 Ah capacity is typically delivered as a power cell; another 610 Ah can still be exploited as an energy cell.

Dimensions



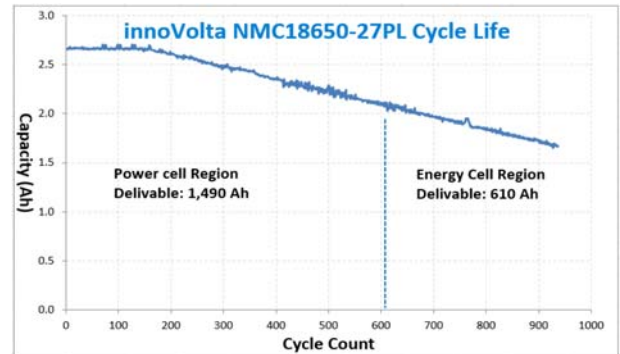
For reference only

Discharge Characteristics by Current



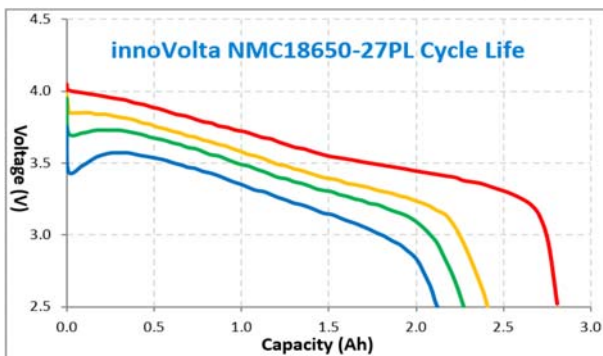
Charge: CC/CV, 0.5C/ 4.20 V 54 mA cut-off, Ta = 25 °C
Discharge: CC 1A/ 5A/ 10A/ 13A, 2.50 V cut-off, Ta = 25 °C

Cycle Life Characteristics



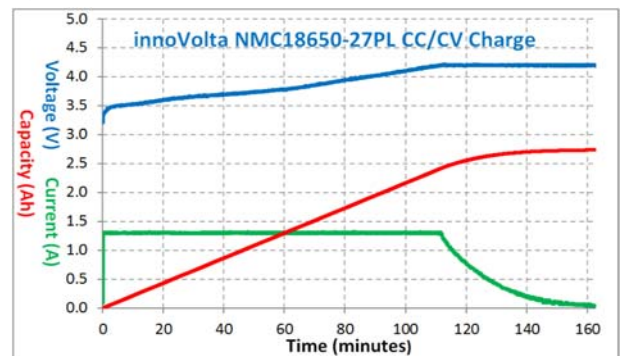
Charge: CC/CV, 0.5C/ 4.20 V 54 mA cut-off, Ta = 25 °C
Discharge: CC 1C, 2.50 V cut-off, Ta = 25 °C

Discharge Characteristics by Temperature



Charge: CC/CV, 0.5C/ 4.20 V 54 mA cut-off, Ta = 25 °C
Discharge: CC 0.5C, 2.50 V cut-off, Ta = +55, +25, 0, -10, -20 °C

Charge Characteristics



Charge: CC/CV, 0.5C/ 4.20 V 54 mA cut-off, Ta = 25 °C

The data in this document is for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

To seek more energy storage solutions from AmeriBatt, please email info@ameribatt.com, or visit www.ameribatt.com.