High Power Lithium Ion APR18650M1

A123Systems lithium-ion rechargeable APR18650M1 cell is capable of very high power, long cycle and storage life, and is inherently safe due to its use of patented nanophosphate technology.

Nominal capacity and voltage 1.1 Ah, 3.3 V
Recommended standard charge method 1.5A to 3.6V CCCV, 45 min
Recommended fast charge current 5A to 3.6V CCCV, 15 min
Maximum continuous discharge 30A
Cycle life at 5C discharge, 100% DOD Over 1,000 cycles
Recommended charge and cut-off V at 25°C 3.6V to 2V
Operating temperature range -30°C to +60°C
Storage temperature range -50°C to +60°C
Core cell weight 39 grams

Projected Cycle Life, 100% DOD, Room Temperature

Discharge Characteristics 25°C