High Power Lithium Ion APR18650m1A

A123Systems’ lithium ion rechargeable APR18650m1A cell is capable of very high power, long cycle and storage life, and has superior abuse tolerance due to the use of patented Nanophosphate™ technology.

Nominal capacity and voltage 1.1Ah, 3.3 V
Recommended standard charge method 1.5A to 3.6V CCCV, 45 min
Recommended fast charge current 4A 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

Discharge Characteristics, Room Temperature

Projected Cycle Life, 100% DOD, 1C/1C, Room Temperature

* Preliminary specifications, performance may vary depending on use conditions and application. A123Systems makes no warranty explicit or implied with this datasheet. Contents subject to change without notice.

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