

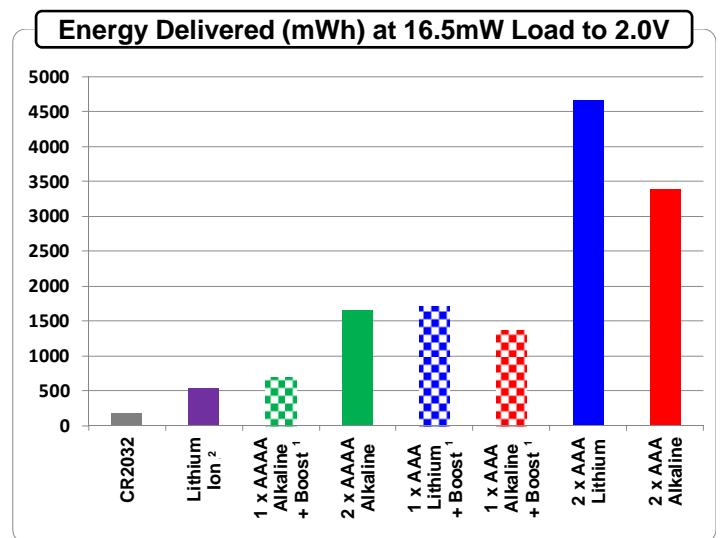
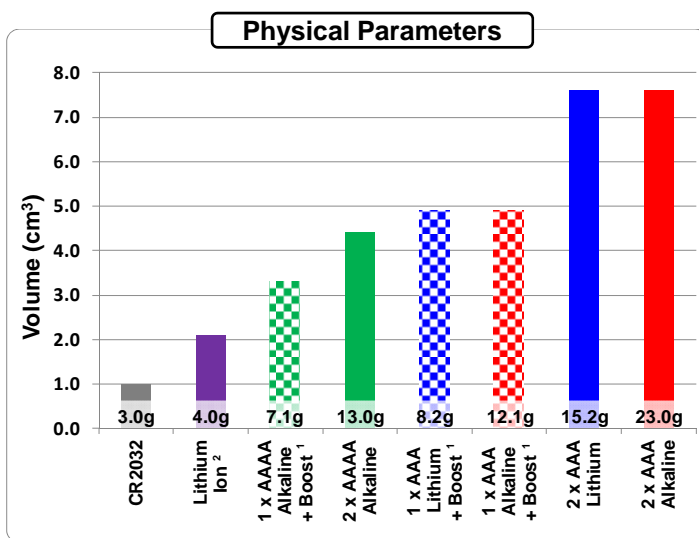
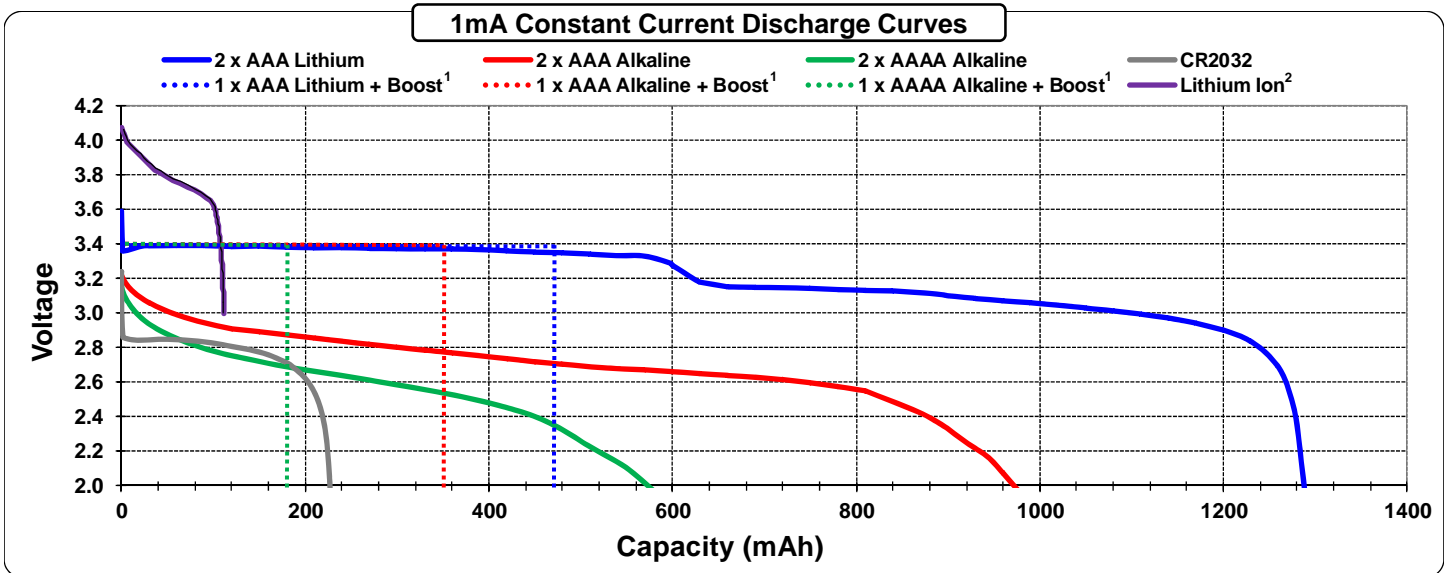


3 Volt Power Solutions

An overview of performance and design considerations for today's small devices

| 3V Power Solution | Nominal Voltage | Capacity (mAh) 1mA to 2.0V | Energy (mWh) 1mA to 2.0V | Shelf Life (years) | Operating Temperature | Output Voltage Stability | Pulse Capability | Ease of Design | Output Voltage Flexibility |
|--|-----------------|----------------------------|--------------------------|--------------------|-----------------------|--------------------------|------------------|----------------|----------------------------|
| CR2032 | 3.0 | 225 | 675 | 8 | -30C - 60C | Good | Poor | Excellent | Poor |
| 2 x AAAA Alkaline | 3.0 | 575 | 1725 | 5 | -18C - 55C | Fair | Good | Excellent | Poor |
| 2 x AAA Alkaline | 3.0 | 975 | 2925 | 7 | -18C - 55C | Fair | Good | Excellent | Poor |
| 2 x AAA Lithium | 3.0 | 1280 | 3840 | 15 | -40C - 60C | Good | Excellent | Excellent | Poor |
| 1 x AAAA Alkaline + Boost ¹ | 3.3 | 180 | 595 | 5 | -18C - 55C | Excellent | Fair | Fair | Good |
| 1 x AAA Alkaline + Boost ¹ | 3.3 | 350 | 1155 | 7 | -18C - 55C | Excellent | Fair | Fair | Good |
| 1 x AAA Lithium + Boost ¹ | 3.3 | 470 | 1550 | 15 | -40C - 60C | Excellent | Fair | Fair | Good |
| Lithium Ion ² | 3.7 | 120 | 445 | 3 - 5 | 0C - 40C | Poor | Good | Poor | Poor |

| | |
|---|-----------|
| ● | Excellent |
| ○ | Good |
| ○ | Fair |
| ● | Poor |



¹ Microchip MCP1640 step-up DC-DC converter evaluation board, output set to 3.3V

² Lithium Ion Polymer (120mAh)

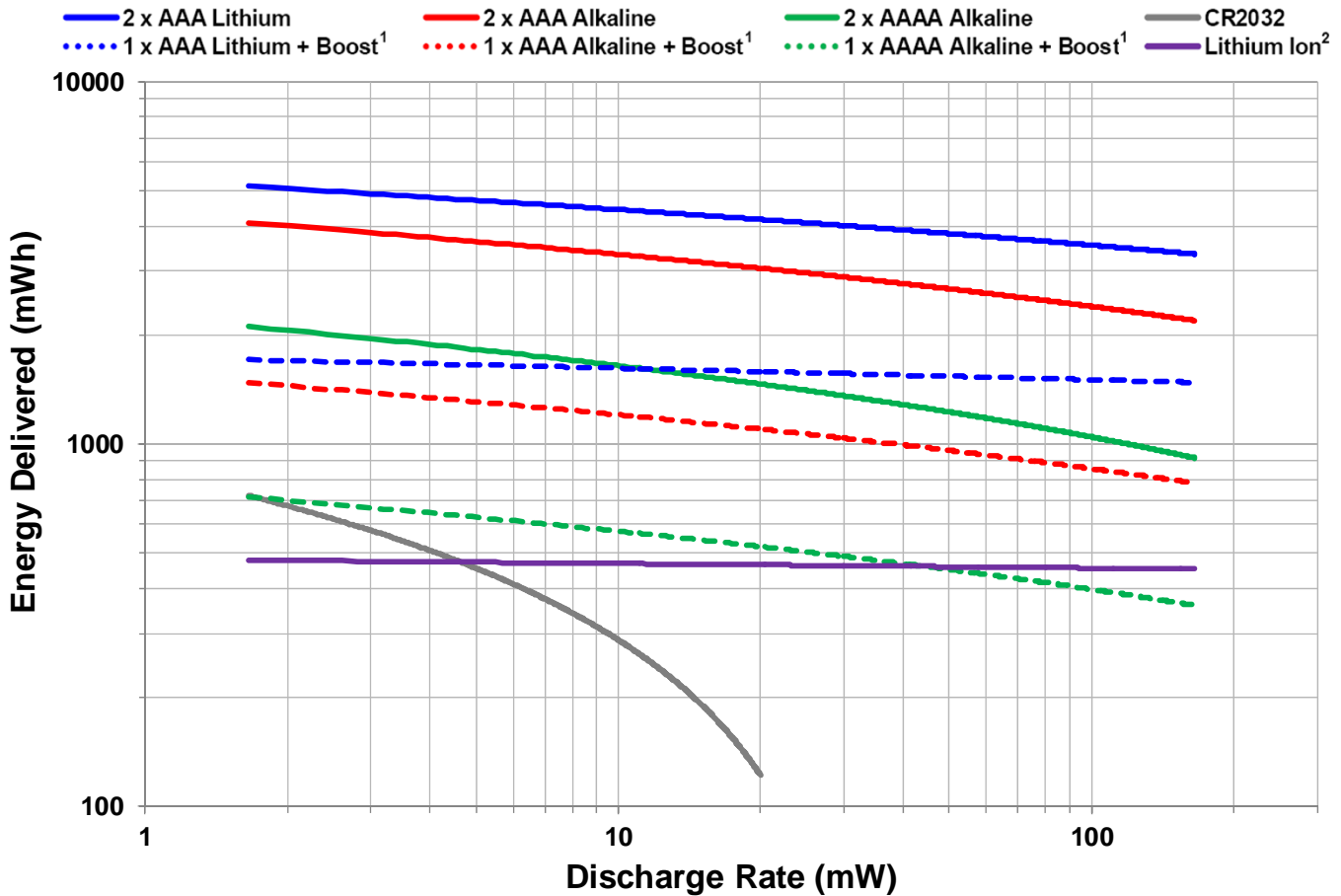
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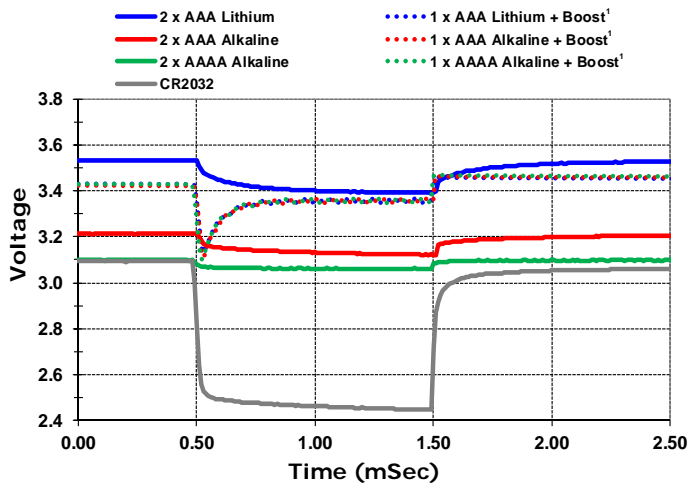
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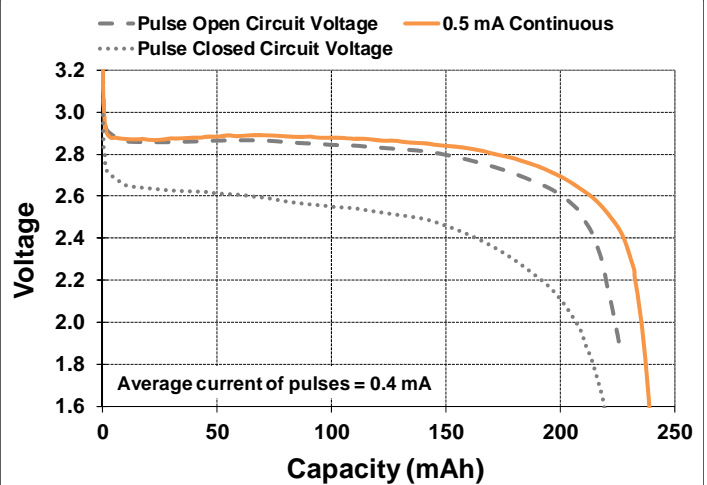
Constant Power Rate Capability



Single Pulse (25 Ohm Load for 1 mSec)



CR2032 Continuous and Pulse Load (251 Ohm, 1 mSec ON / 24 mSec OFF)



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