

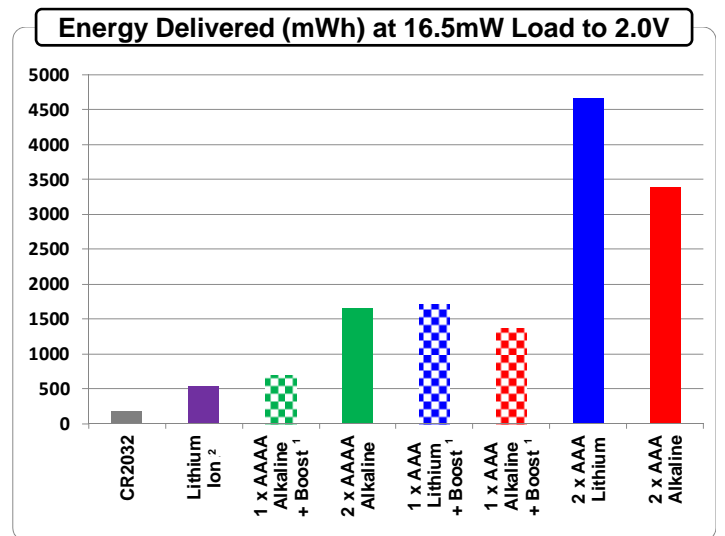
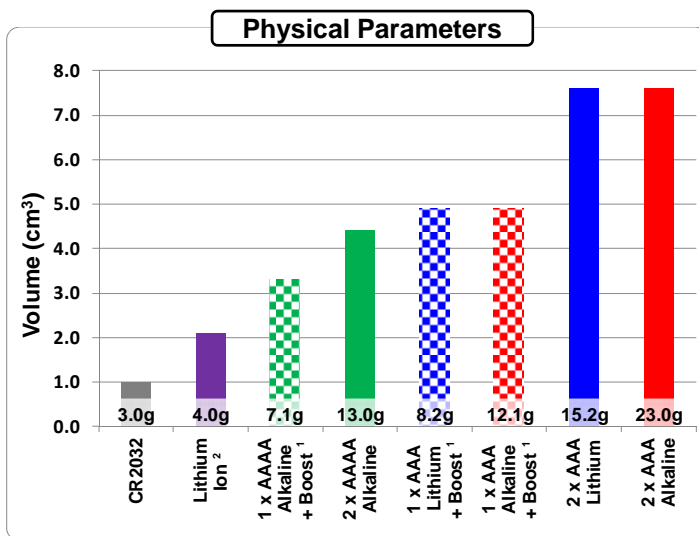
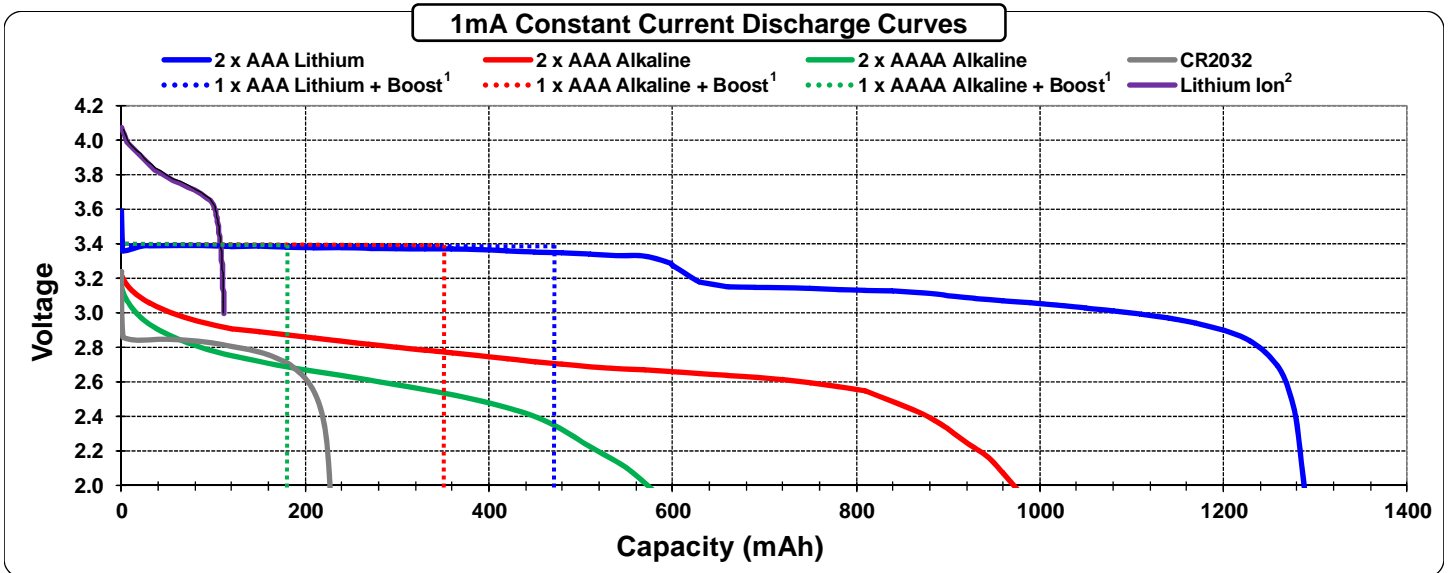


3 Volt Power Solutions

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)

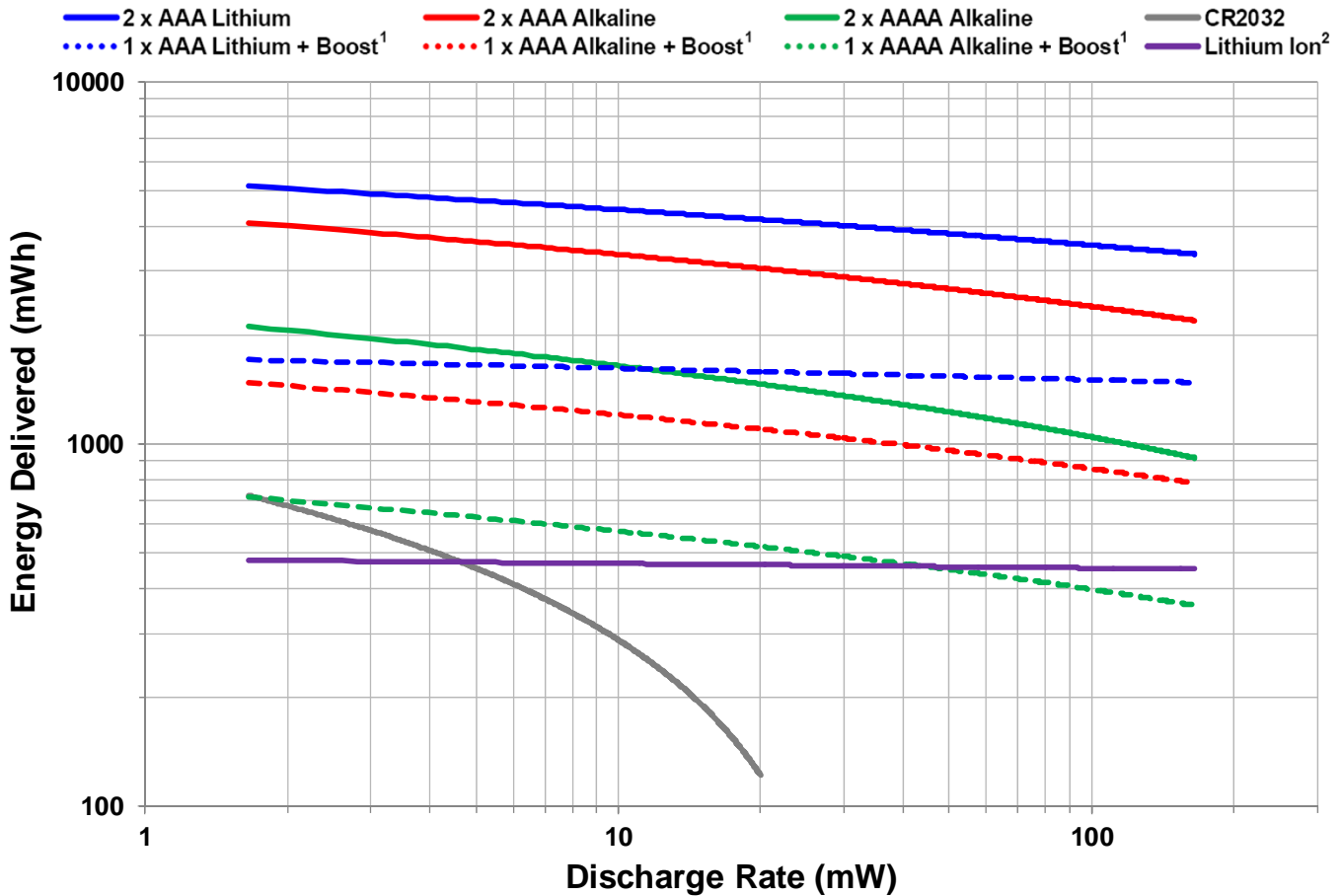
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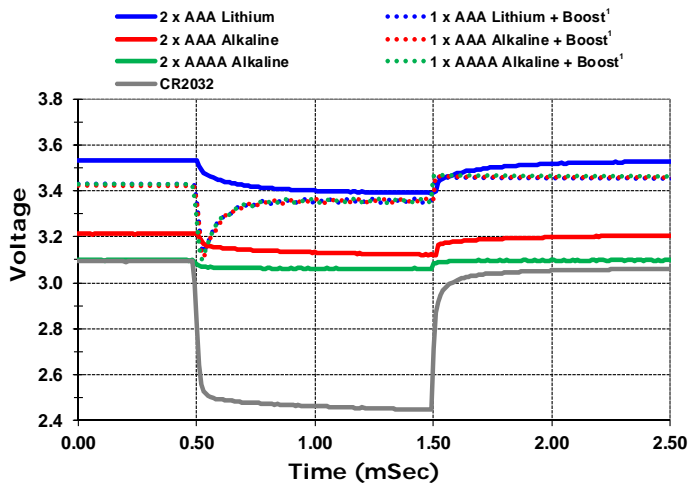
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An overview of performance and design considerations for today's small devices

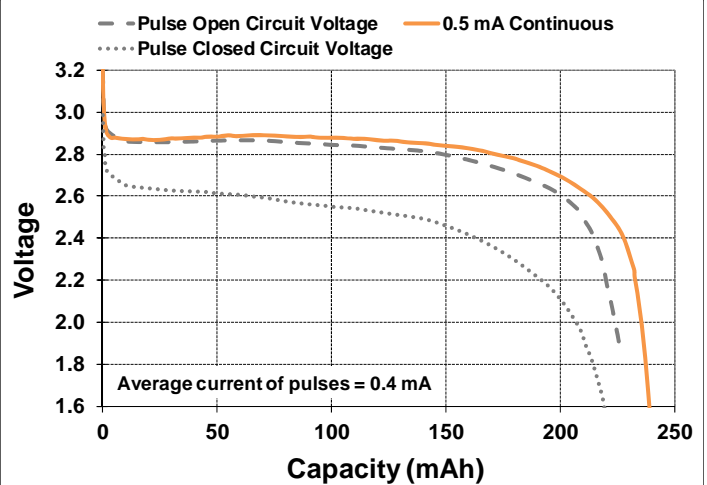
Constant Power Rate Capability



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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