



NiMH Product Line



AAA Cells

AA Cells

Af and 18650 Cells

Cs, C, and D Cells

9 Volts

Button Cells

Typical Performance of Cylindrical Cells

Nickel Metal Hydride AAA Cells

Model No.	Cell Size	Nominal Dimensions (mm)		Weight (g)	Capacity (mAh)	
		Diameter	Height		Nominal	Typical
GP28AAAM	2/3AAA	10.2	29.0	9	280	300
GP50AAAH	AAA	10.5	44.5	13	500	500
GP55AAAH	AAA	10.5	44.7	12.5	550	578
GP65AAAH	5/4AAA	10.5	48.0	14	650	685
GP80AAAH	7/5AAA	10.5	66.2	17	800	840

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Nickel Metal Hydride AA Cells

Model No.	Cell Size	Nominal Dimensions (mm)		Weight (g)	Capacity (mAh)	
		Diameter	Height		Nominal	Typical
GP60AAH	2/3AA	14.5	28.7	13	600	660
GP60AAHC	AA	14.5	50.0		600	660
GP121AAM	4/5AA	14.4	42.5	22	1210	1300
GP120AAM	AA	14.4	48.2	24	1200	1300
GP125AAM	AA	14.4	48.2	24	1250	1310
GP130AAH	AA	14.5	49.2	26	1300	1400
GP130AAHC	AA	14.5	50.0	26	1300	1400
GP130AAM	AA	14.4	48.2	25	1300	1400
GP150AAH	AA	14.5	49.2	27	1500	1600
GP150AAHC	AA	14.5	50.0	27	1500	1600

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Nickel Metal Hydride Af and 18650 Cells

Model No.	Cell Size	Nominal Dimensions (mm)		Weight (g)	Capacity (mAh)	
		Diameter	Height		Nominal	Typical
GP60AFH	1/2Af	17.0	22.0	14	600	650
GP100AFH	2/3Af	17.0	28.7	19	1000	1080
GP181AFH	4/5Af	17.0	43.0	32	1810	1900
GP210AFH	Af	17.0	50.2	36	2100	2200
GP300AFH	7/5Af	17.5	66.7	51	3000	3100
GP360AFH	7/5Af	17.5	66.7	53	3500	3600
GP80LAH	18210	18.3	21.5	17	800	860

GP400LAH	18650	18.3	65.5	62	4000	4100
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Nickel Metal Hydride Cs, C and D Cells

Model No.	Cell Size	Nominal Dimensions (mm)		Weight (g)	Capacity (mAh)	
		Diameter	Height		Nominal	Typical
GP160SCH	Cs	23.0	42.6	44	1600	1650
GP220SCH	Cs	23.0	42.6	47	2200	2250
GP220CH	C	26.2	50.0		2200	2250
GP220DH	D	34.2	61.5		2200	2250

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Nickel Metal Hydride 9 Volts

Model No.	Nominal Voltage (V)	Nominal Dimensions (mm)			Weight (g)	Capacity (mAh)	
		Depth	Width	Height		Nominal	Typical
GP15F7H	7.2	17.5	26.5	48.5	39	150	160
GP15F8H	8.4	17.5	26.5	48.5	42	150	160

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Nickel Metal Hydride Button Cells

Model No.	Nominal Dimensions (mm)		Weight (g)	Capacity (mAh)
	Diameter	Height		Nominal
GP35BVH	11.5	5.4	1.8	35
GP70BVH	15.4	6.3	3.7	70

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Typical Performance of NiMH Cylindrical Cells

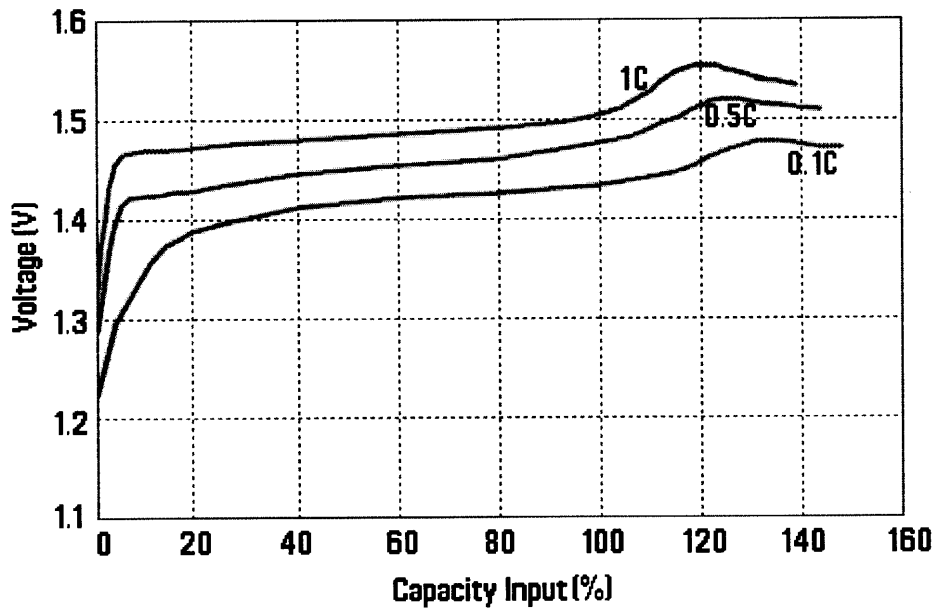
Charge

© **Standard Charging:** Charging at 0.1C standard rate for 14-16 hours will greatly enhance the battery's service life. Our batteries can withstand overcharge at 0.1C rate indefinitely. Charging at or

below 0.1C rate is suitable across a temperature range from 0°C to +45°C.

© **Fast Charging:** All our series can be fast charge at rates from 0.5C to 1C. Fast charge termination measures should be employed. These include: Temperature Cut-Off (TCO), Rate-of-temperature rise (dT/dt), negative Delta V (-dV). A timer control set at 105% of nominal capacity can be used as an additional protection. For maximum capacity, trickle charging can be applied after fast charging. We recommend top-off trickle charging at 0.1C for 2 hours or 0.2C for 1 hour. Fast charging can be done at temperatures from +10°C to +45°C.

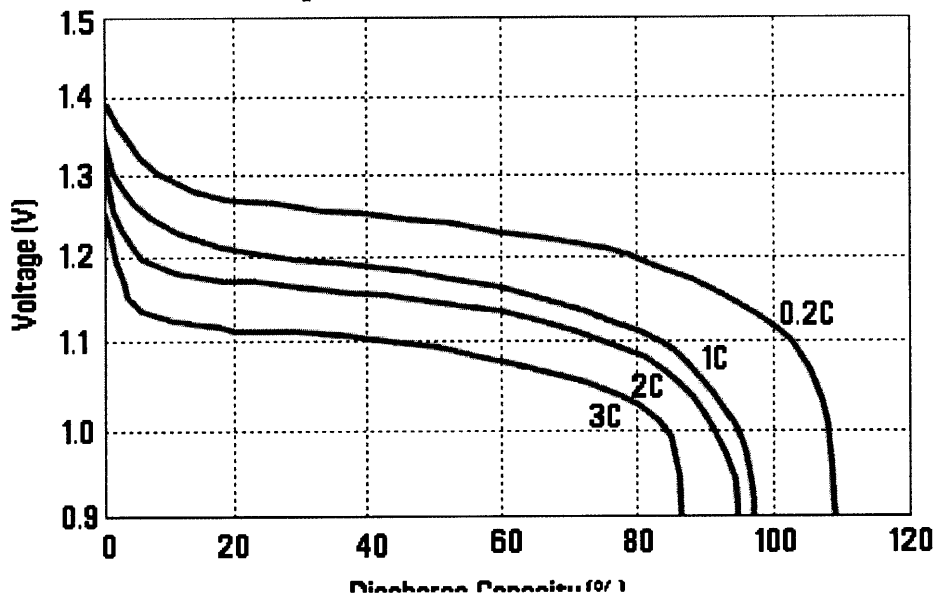
Charge Curves for NiMH Cylindrical Cells



Discharge

© Discharge rates at room temperature can be up to 3C.

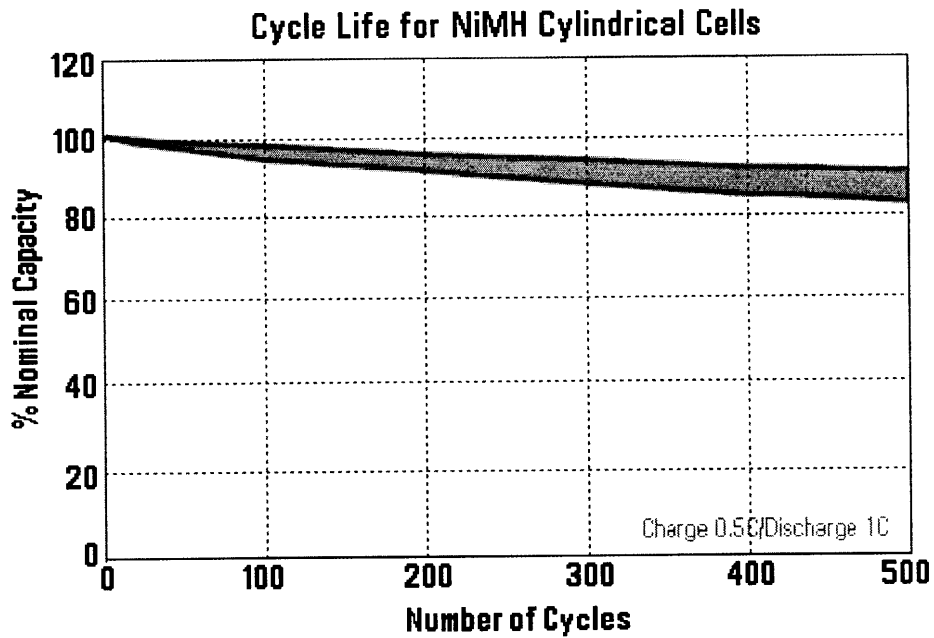
Discharge Curves for NiMH Cylindrical Cells



Discharge Capacity (%)

Cycle Life

© Cycle Life is dependent upon usage conditions and can range from 300-1000 charge/discharge cycles.



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