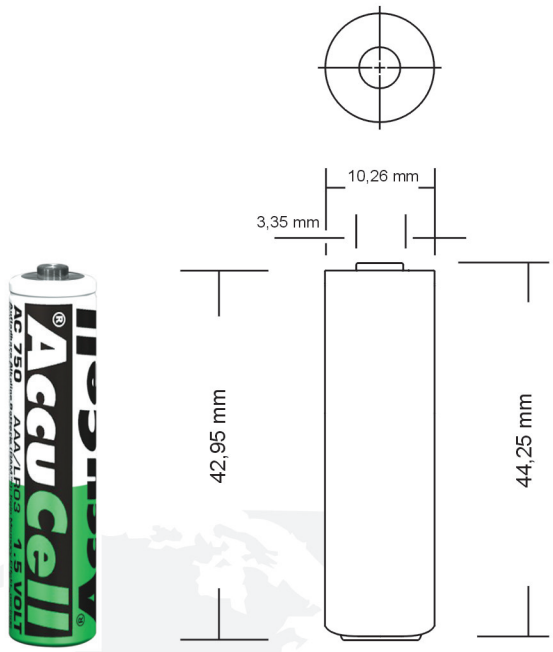
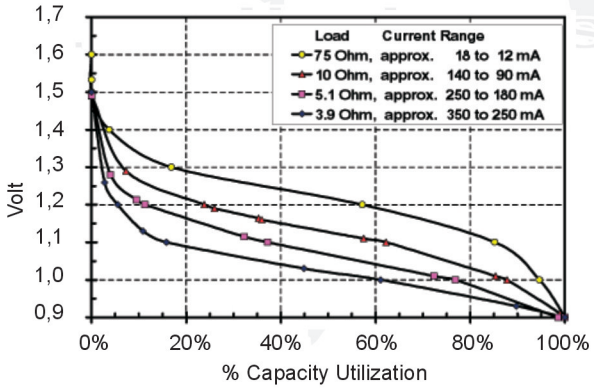
AC750 Micro/AAA/LR03



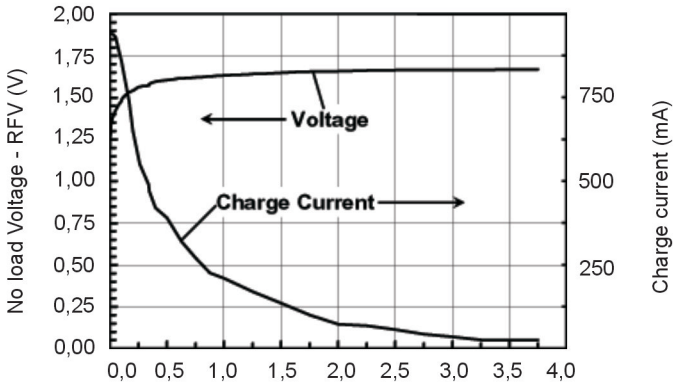
Open Circuit Voltage		1,57 Volt
Internal Resistance of fresh cells		approx. 0.20 Ohm
Initial Typical Capacity [1], mAh	30mA to 0,9V	800
	125mA to 0,9V	750
	300mA to 0,8V	600
	500mA to 0,8V	450
	1000mA to 0,8V	-
Dimensions	Height	44,25 mm
	Diameter	10,26 mm
	Weight	11 gramm
Charging [2] (Puls/Taper)	Voltage Limit	1,65 +/- 0,05V (for taper charge) 1,75V/1,65V (for pulse charge)
maximum charge current		1000mA
Operating Temperature [3]		-20°C to +60°C
Storage Temperature		+15°C to +35°C
Shelf life		up to 5 years
Cycle life [4]		25 to 500+

Discharge curve with diffrent currents



Normalized discharge voltage curves for AccuCell AAA cells to estimate available capacity at various drain rates

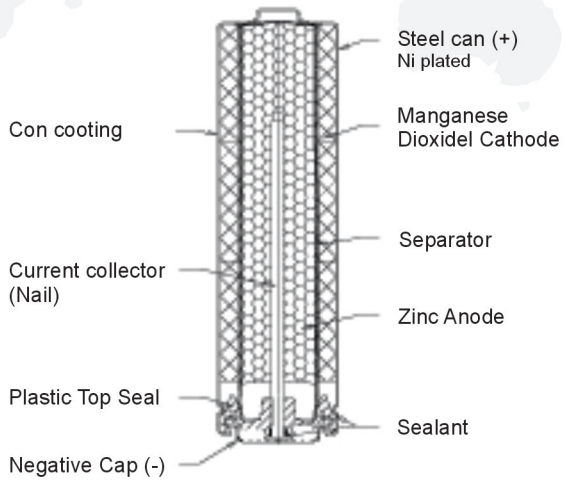
Charge curve



Typical charge for Fast Pulse charge of AccuCell rechargeable Alkaline AAA batteries model AC750

1) Aged cells my require intermittent discharge, which is the typical consumer use, to achieve typical capacity
2) Pulse charge of AccuCell RAM requires intelligent charger with a special charging algorythm a.e. AccuCell chargers ACL62, ACL64
3) Capacity from cells will be lower at lower temperatures
4) Cycle life will strongly depend on factors such as rate of discharge, end cut-off point voltage and depth discharge

AccuCell construction



AccuCell RAM Chemistry
Rechargeable**A**lkaline**M**anganese

Manganese dioxide cathode reaction
$MnO_2 + H_2O + e^- <==> MnOOH + OH^-$
Zinc powder anode reaction
$Zn + 2OH^- <==> ZnO + H_2O + 2e^-$
Overall cell reaction
$Zn + 2MnO_2 + H_2O <==> ZnO + 2MnOOH$
Aqueous potassium hydroxide electrolyte