

58 Farads, 15 Volts
$E=1 / 2 * C * V^{2}$
$=1 / 2 * 58 \mathrm{~F} * 15 \mathrm{~V}^{2}$
$=6525$ Joules
$.5^{*}\left(58\right.$ farads * $\left.\left((15 \text { volts })^{\wedge} 2\right)\right)=6525$ joules


AA 9360
9072
AA 93609072
-umex

Alkaline NiMh
AAA 50713456

C $34,398 \quad 19,440$
DURAGEELE

D $\quad 74,970$
41,040


## Capacitor advantages:



- $10^{6}$ - $10^{7}$ charge/discharge cycles
- No chemical reaction in most cases
- Very simple charge circuit
-Can charge very quickly
- High efficiency
-Very high power (all energy / short time)

-102 $-10^{3}$ charge/discharge cycles
-Chemical reaction
-Complex charging circuits in some cases
- Must be charged slowly
- Low efficiency in some cases
-Low to moderate power

