ADVANCED TASER

Electro-Muscular Disruption

Technology Review





The Variables

Batteries



Flow = Amperage 168 mA

Pressure = Voltage 50,000 V

Mass & Pressure of Pulse = Energy

1.76 Joules

Capacitor

Energy per pulse & # per second = Power

26 Watts

Low Battery = Low Pulse Rate



Strong Battery = High Pulse Rate



EMD vs. Stun: Stronger Pulses

7-Watt Stun

26 Watt EMD

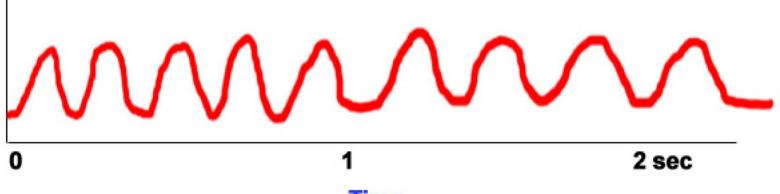




Why Pulse Rate is Important

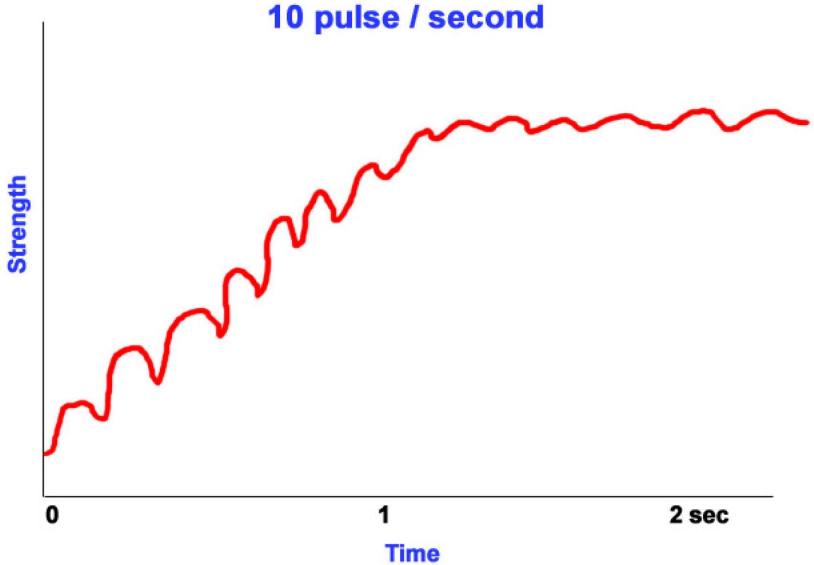
Muscle Contraction 5 pulse / second





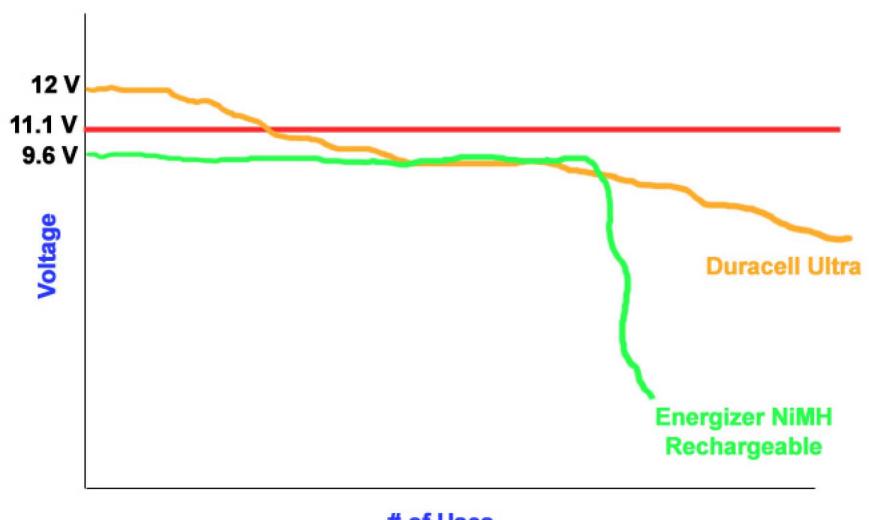
Why Pulse Rate is Important

Muscle Contraction 10 pulse / second



Why Battery Indicator is only for Alkaline Batteries

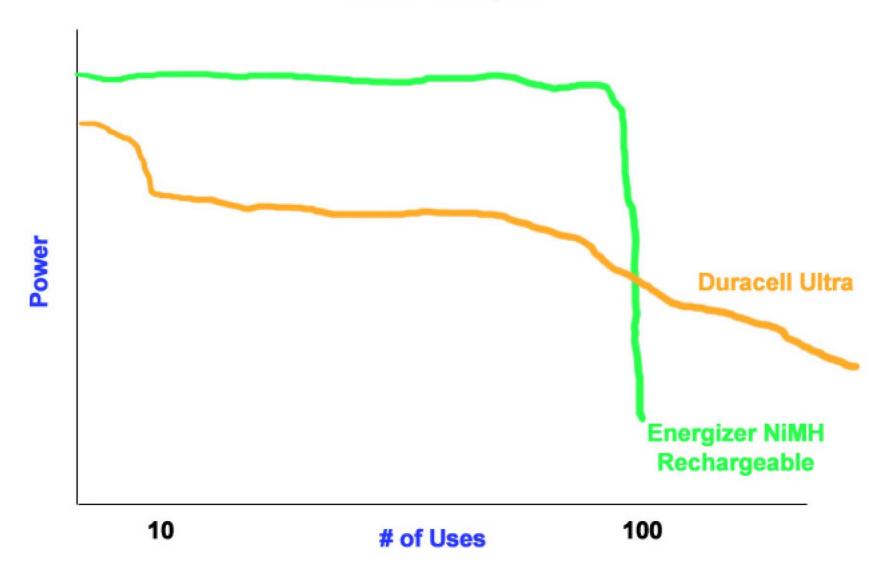
Battery Indicator



of Uses

NiMH's perform better over time

Power Output



NiMH's perform better at low temperatures

