



## Quick-reference Guide: Single-use Batteries

	Lithium	Alkaline	Heavy-duty/General purpose
REI assessment	Very good AA, AAA, C, D choice. Power-packed; low weight.	Good AA, AAA, C, D choice. Dependable, reliable workhorse.	Poor choice; antiquated technology; low energy capacity; not sold at REI.
Nominal voltage ("pushes" electricity)	3.0	1.5	1.5
Estimated shelf life (at 70°F)	10-15 years	5-7 years	3-5 years
Suggested long-term storage	60°F-70°F; Avoid refrigeration/freezing	60°F-70°F; Avoid refrigeration/freezing	60°F-70°F; Avoid refrigeration/freezing
Performance at 0°F/90°F	Good/very good	Poor/good	Poor/fair
Hypothetical number of flash photos	100-plus	Dozens	A handful or two
Best or common uses	High-drain devices (digital cameras, GPS); moderate-drain devices (most headlamps, toys)	GPS (about 2 days continuous use, longer when used intermittently); moderate-drain devices (headlamps, toys)	Low-drain devices (clocks)
Distinctive characteristics	Excellent backup battery; good for emergency kits. Best digital camera choice among single-use batteries. Some devices require lithium cells in specialized sizes (CR123). CAUTION: Too powerful for some devices (particularly headlamps); read product instructions first.	Excellent backup battery; good for emergency kits. Varying grades (premium, standard, economy) exist with corresponding differences in performance and price.	Battery of last resort
Recyclable	Yes, though most go to landfills (materials offer little value)	Yes, though most go to landfills (materials offer little value)	Yes, though most go to landfills (materials offer little value)