TABLE 14.2. BATTERY CHARACTERISTICS

Type	R_{int} (Ω)	V_{oc} (V)	Capacity[a] continuous, to 1V/cell (mAh)	@ (mA)	(mAh)	@ (mA)	Size (in)	Weight (gm)	Connec[b]	Comments
9V "1604"										
Le Clanche	35	9	300	1	160	10	0.65x1x1.9	35	S	
Heavy Duty	35	9	400	1	180	10	"	40	S	
Alkaline	2	9	500	1	470	10	"	55	S	280mAh@100mA
Lithium	18	9	1000	25	950	80	"	38	S	Kodak Li-MnO_2
1.5V Alkaline										
D	0.1	1.5	10000	10	8000	100	1.3Dx2.2L	125	B	4000mAh @ 1A
C	0.2	1.5	4500	10	3200	100	1.0Dx1.8L	64	B	
AA	0.4	1.5	1400	10	1000	100	0.55Dx1.9L	22	B	
AAA	0.6	1.5	600	10	400	100	0.4Dx1.7L	12	B	
Mercury										
625	–	1.35	250[c]	1	250[c]	10	0.62Dx0.24L	4	B	
675	10	1.35	190[c]	0.2	–	–	0.64Dx0.21L	2.6	B	
431	–	11.2	1000[c]	25	–	–	1.0Dx2.9L	115	S	
Silver										
76	10	1.55	180	1	–	–	0.46Dx0.21L	2.2	B	
Li-Oxyhalide										
D	–	3.9	14000[d]	175	10500[d]	350	1.3Dx2.3L	113	B,T	$SOCl_2$/BrCl
D	–	3.95	14000[d]	175	12000[d]	1000	"	110	B,T	SO_2Cl_2/Cl_2
D	–	3.5	9500[d]	175	8500[d]	1000	"	120	B,T	$SOCl_2$
Li solid	–	4.0	350[d]	1μA	175[d]	0.1	1.2Dx0.23L	16	T	high impedance
Ni-Cd										
D	0.009	1.3	4000[c]	800	3500[c]	4000	1.3Dx2.3L	130	B	Saft/Powersonic
9V	0.84	8.1	100[c]	10			0.65x1x1.9	35	S	
Pb-acid										
D	0.006	2.0	2500[e]	25	2000[e]	1000	1.3Dx2.6L	180	T	

[a] see Fig. 14.1 for discharge curves. [b] B - button; S - snap; T - solder tabs. [c] to 0.9V/cell. [d] to 2.5V/cell. [e] to 1.75V/cell