

SAM Rule with AUL cells with battery allowance = .55 Watt-hours per ounce of Empty Weight + Ballast
Energy per All Up Weight = 3/4 x 0.55 = 0.4125 Watt hours per ounce of AUW.
A.U.W. - All Up Weight = Weight Empty + Ballast + Battery weight W.E. - Weight Empty = All Up Weight less Ballast and Battery Weight

Nicad / NiMh Battery Options ~ Maximum Capacity ~ mah

Number of Cells																	
Model AUW	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
10.00	859	688	573	491	430	382	344	313	286	264	246	229	215	202	191	181	172
15.00	1289	1031	859	737	645	573	516	469	430	397	368	344	322	303	286	271	258
20.00	1719	1375	1146	982	859	764	688	625	573	529	491	458	430	404	382	362	344
25.00	2148	1719	1432	1228	1074	955	859	781	716	661	614	573	537	506	477	452	430
30.00	2578	2063	1719	1473	1289	1146	1031	938	859	793	737	688	645	607	573	543	516
35.00	3008	2406	2005	1719	1504	1337	1203	1094	1003	925	859	802	752	708	668	633	602
40.00	3438	2750	2292	1964	1719	1528	1375	1250	1146	1058	982	917	859	809	764	724	688
45.00	3867	3094	2578	2210	1934	1719	1547	1406	1289	1190	1105	1031	967	910	859	814	773
50.00	4297	3438	2865	2455	2148	1910	1719	1563	1432	1322	1228	1146	1074	1011	955	905	859
55.00	4727	3781	3151	2701	2363	2101	1891	1719	1576	1454	1350	1260	1182	1112	1050	995	945
60.00	5156	4125	3438	2946	2578	2292	2063	1875	1719	1587	1473	1375	1289	1213	1146	1086	1031
65.00	5586	4469	3724	3192	2793	2483	2234	2031	1862	1719	1596	1490	1396	1314	1241	1176	1117
70.00	6016	4813	4010	3438	3008	2674	2406	2188	2005	1851	1719	1604	1504	1415	1337	1266	1203
75.00	6445	5156	4297	3683	3223	2865	2578	2344	2148	1983	1842	1719	1611	1517	1432	1357	1289
80.00	6875	5500	4583	3929	3438	3056	2750	2500	2292	2115	1964	1833	1719	1618	1528	1447	1375

LiPoly Battery Capacity ~ Maximum ~ mah
Number of Cells

Model AUW	2	3	4	5	6	7
10.00	557	372	279	223	186	159
15.00	836	557	418	334	279	239
20.00	1115	743	557	446	372	319
25.00	1394	929	697	557	465	398
30.00	1672	1115	836	669	557	478
35.00	1951	1301	976	780	650	557
40.00	2230	1486	1115	892	743	637
45.00	2508	1672	1254	1003	836	717
50.00	2787	1858	1394	1115	929	796
55.00	3066	2044	1533	1226	1022	876
60.00	3345	2230	1672	1338	1115	956
65.00	3623	2416	1812	1449	1208	1035
70.00	3902	2601	1951	1561	1301	1115
75.00	4181	2787	2090	1672	1394	1194
80.00	4459	2973	2230	1784	1486	1274

Models must meet the 8 ounce per square foot wing loading
 Battery cells must show manufacturer's marking with capacity clearly displayed
 Battery must be visible in model or must be removeable

Equation for NiCad ~ Maximums
 Battery Capacity = 4125 x Model All Up Weight / 1.23 x Number of Cells
 Model All Up Weight = Battery Capacity x Number of Cells x 1.23 / 4125

Equation for LiPoly ~ Maximums
 Battery Capacity = 4125 x Model All Up Weight / 3.7 x Number of Cells
 Model All Up Weight = Battery Capacity x Number of Cells x 3.7 / 4125