



# STRYTEN ENERGY

## E-SERIES

# Absolyte® AGP >>>



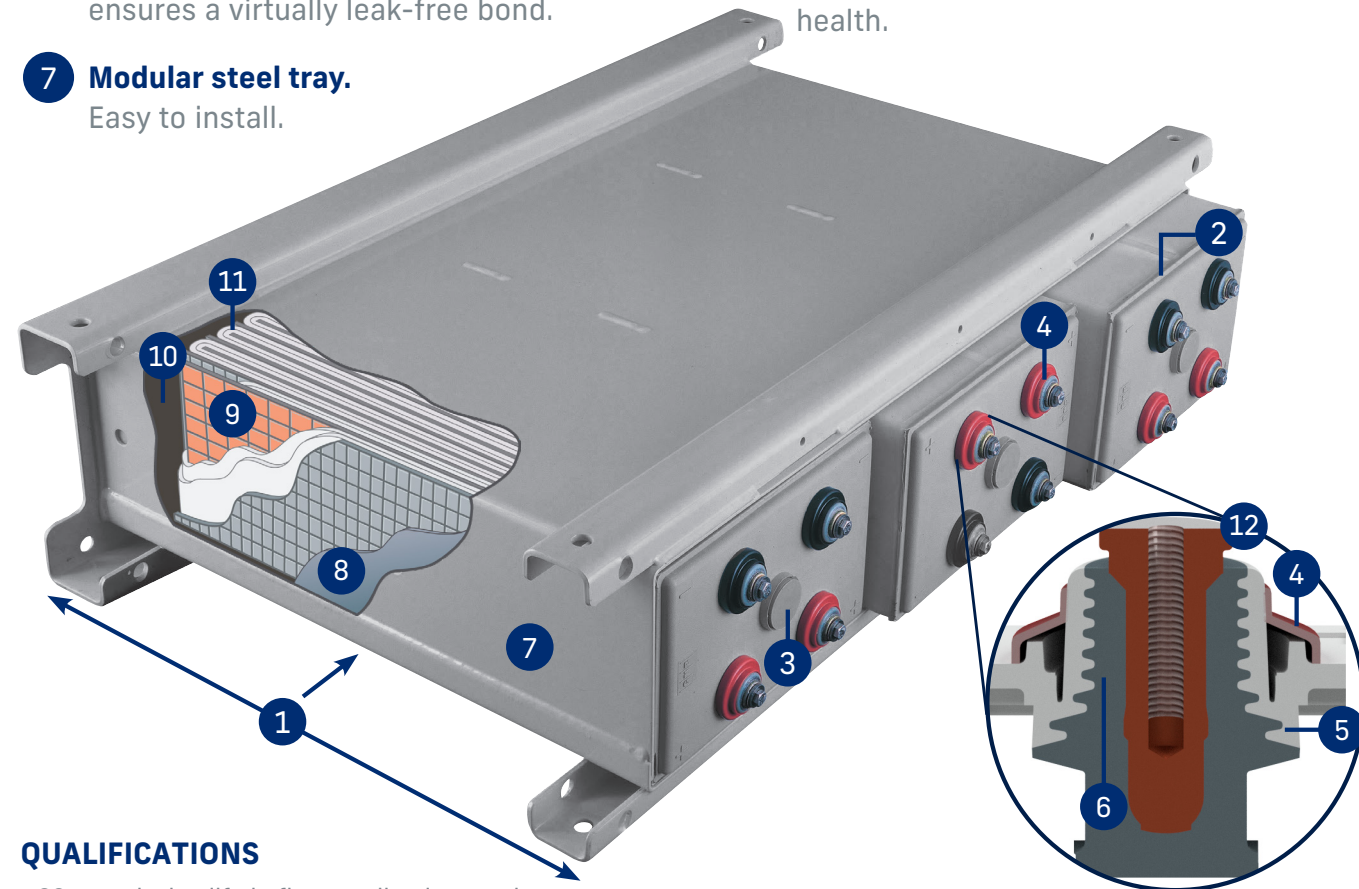
## CONSTANT POWER SPECIFICATIONS

**241 WPC TO 3089 WPC**  
**5 MINUTES TO 90 MINUTES**

*THE ENERGY TO CHALLENGE*

# Designed For High Performance and Sustainability

- 1 **High capacity in a small footprint.** Frees up valuable floor space for other equipment.
- 2 **Jar to cover heat seal.** Jar and cover are heat sealed and bead smoothed for a more reliable seal.
- 3 **Safety vent.** 3.5 - 9 psi opening pressure. Self-resealing.
- 4 **Color-coded terminal polarity.** Provides easy terminal identification.
- 5 **Heat sealed post seal.** Non-corrosive polypropylene-to-polypropylene bond is as strong as the original material.
- 6 **Interface between lead post and plastic sleeve.** Coated with a viscous agent which ensures a virtually leak-free bond.
- 7 **Modular steel tray.** Easy to install.
- 8 **Container and Cover** - UL94 V-0/28% L.O.I. polypropylene is standard; non-flame retardant is optional.
- 9 **Environmentally friendly Lead-Calcium-Tin positive plate grid alloy** - Ideal for both float and cycling applications.
- 10 **Space for positive plate growth.** Space is provided so growth can occur away from post and cover seals to increase battery life.
- 11 **High separator compression.** Reduces possibility of loss of capacity and degradation of the plate-to-separator contact.
- 12 **Post Access optimized** for ease of maintenance and assessment of battery health.



## QUALIFICATIONS

- 20 year design life in float applications and 1200 cycles to 80% DOD in cycle applications @ 25°C when operated per the I&O Manual.
  - Absolyte AGP is seismic qualified to 1997 UBC, 2005 IEEE 693, and 2018 IBC/2016 CBC.
  - UL Recognized Component, ISO 9001:2015, Designed to meet Telcordia GR-4228.
  - NEBS Level 3 Certified in certain configurations.
- (See page 18 for applicable configurations.)

# Module Weights and Dimensions

MODULE TYPE	VOLTS	WATTS PER CELL 15min to 1.67 VPC	STACKING DIMENSIONS						UNPACKED WEIGHT		DOMESTIC PACKED WEIGHT		EXPORT PACKED WEIGHT	
			LENGTH		HEIGHT		DEPTH*		LBS	KG	LBS	KG	LBS	KG
			IN	MM	IN	MM	IN	MM						
<b>50G</b>														
6-50G05	12	241	17.19	437	8.53	217	16.22	412	157	71	176	80	228	104
6-50G07	12	362	21.69	551	8.53	217	16.22	412	209	95	228	104	280	127
6-50G09	12	483	26.19	665	8.53	217	16.22	412	252	114	271	123	323	147
6-50G13	12	725	35.19	894	8.53	217	16.22	412	356	162	381	173	433	197
<b>90G</b>														
6-90G07	12	529	21.69	551	8.53	217	23.56	599	316	143	335	152	413	187
6-90G09	12	706	26.19	665	8.53	217	23.56	599	396	180	415	188	493	224
6-90G11	12	882	30.69	780	8.53	217	23.56	599	477	216	502	228	581	264
6-90G13	12	1059	35.19	894	8.53	217	23.56	599	557	253	582	264	661	300
6-90G15	12	1235	39.69	1008	8.59	218	23.56	599	637	289	668	303	747	339
<b>100G</b>														
3-100G13	6	1158	19.93	506	8.53	217	26.38	670	328	149	356	162	436	198
3-100G15	6	1351	22.18	563	8.59	218	26.38	670	374	170	408	185	489	222
3-100G17	6	1544	24.50	622	8.59	218	26.38	670	424	192	446	202	528	240
3-100G19	6	1737	26.75	679	8.59	218	26.38	670	470	213	491	223	574	260
3-100G21	6	1931	29.00	737	8.59	218	26.38	670	515	234	539	245	623	283
3-100G23	6	2124	31.25	794	8.59	218	26.38	670	561	255	589	267	674	306
3-100G25	6	2317	33.50	851	8.59	218	26.38	670	608	276	637	289	723	328
3-100G27	6	2519	35.75	908	8.59	218	26.38	670	653	296	684	310	772	350
3-100G29	6	2703	38.00	965	8.59	218	26.38	670	704	319	736	334	824	374
3-100G31	6	2896	40.25	1022	8.59	218	26.38	670	750	340	783	355	873	396
3-100G33	6	3089	42.50	1080	8.59	218	26.38	670	795	361	829	376	920	417

\* Includes 77 mm (3") additional for Module Cover Assembly

NOTE: Design and/or specifications subject to change without notice. If questions arise, contact your local Stryten Energy sales representative for clarification. Rates shown assume connectors that are properly sized.

## Performance Specifications - Constant Power

Watts Per Cell to 1.60 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES										
	5	6	7	8	9	10	11	12	13	14	15
<b>50G</b>											
50G05	371	358	347	335	323	311	300	289	278	268	259
50G07	557	538	521	503	485	467	450	433	418	402	388
50G09	743	717	694	671	646	623	600	578	557	536	518
50G13	1114	1076	1042	1006	970	935	900	867	836	805	777
<b>90G</b>											
90G07	728	711	693	676	660	643	627	611	596	581	567
90G09	971	948	924	902	880	858	836	815	795	775	756
90G11	1213	1185	1156	1127	1100	1073	1046	1019	994	969	946
90G13	1456	1422	1387	1353	1320	1287	1255	1223	1193	1163	1135
90G15	1699	1659	1618	1578	1540	1502	1464	1427	1392	1357	1324
<b>100G</b>											
100G13	1614	1573	1532	1492	1452	1414	1378	1342	1312	1278	1248
100G15	1883	1835	1787	1741	1694	1650	1608	1566	1530	1491	1456
100G17	2152	2097	2043	1990	1936	1886	1838	1790	1749	1704	1664
100G19	2421	2359	2298	2239	2178	2122	2068	2014	1968	1917	1872
100G21	2691	2622	2554	2488	2420	2358	2298	2238	2187	2131	2080
100G23	2960	2884	2809	2736	2662	2593	2527	2461	2405	2344	2288
100G25	3229	3146	3064	2985	2904	2829	2757	2685	2624	2557	2496
100G27	3498	3408	3320	3234	3146	3065	2987	2909	2843	2770	2704
100G29	3767	3670	3575	3483	3388	3301	3217	3133	3061	2983	2912
100G31	4036	3933	3831	3732	3630	3537	3447	3357	3280	3196	3120
100G33	4305	4195	4086	3980	3872	3772	3676	3580	3499	3409	3328

## Performance Specifications - Constant Power

Watts Per Cell to 1.60 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES									
	16	17	18	19	20	25	30	45	60	90
<b>50G</b>										
50G05	250	242	234	227	220	194	173	135	113	86
50G07	375	363	351	341	331	291	260	203	170	130
50G09	501	484	469	454	441	388	347	271	226	173
50G13	751	726	703	682	662	583	521	407	340	260
<b>90G</b>										
90G07	555	542	530	518	506	458	417	332	276	206
90G09	740	722	706	691	675	610	556	443	368	275
90G11	925	903	883	863	844	763	696	553	460	344
90G13	1110	1084	1060	1036	1013	916	835	664	552	413
90G15	1295	1264	1236	1209	1182	1068	974	775	644	481
<b>100G</b>										
100G13	1218	1192	1164	1140	1116	1010	924	742	624	477
100G15	1421	1390	1358	1330	1302	1178	1078	866	728	556
100G17	1625	1589	1552	1520	1488	1346	1232	989	832	636
100G19	1828	1788	1746	1710	1674	1515	1386	1113	936	715
100G21	2031	1987	1941	1900	1860	1683	1541	1237	1040	795
100G23	2234	2185	2135	2090	2046	1851	1695	1361	1144	874
100G25	2437	2384	2329	2280	2232	2020	1849	1484	1248	954
100G27	2640	2583	2523	2470	2418	2188	2003	1608	1352	1033
100G29	2843	2791	2717	2660	2604	2357	2157	1732	1456	1113
100G31	3047	2980	2911	2850	2790	2525	2311	1856	1560	1193
100G33	3250	3179	3105	3040	2976	2693	2465	1979	1664	1272

## Performance Specifications - Constant Power

Watts Per Cell to 1.63 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES										
	5	6	7	8	9	10	11	12	13	14	15
<b>50G</b>											
50G05	359	347	336	324	313	302	291	280	271	261	253
50G07	538	520	504	486	470	453	437	421	406	392	379
50G09	718	694	672	648	426	604	582	561	542	523	506
50G13	1077	1041	1008	973	940	906	874	842	813	784	759
<b>90G</b>											
90G07	706	690	672	656	640	624	609	594	581	567	554
90G09	941	920	896	875	854	833	812	793	775	756	738
90G11	1177	1150	1120	1094	1067	1041	1015	991	968	945	923
90G13	1412	1380	1344	1312	1281	1249	1218	1189	1162	1135	1108
90G15	1648	1610	1568	1531	1494	1458	1421	1387	1356	1324	1292
<b>100G</b>											
100G13	1567	1534	1491	1453	1411	1368	1333	1300	1269	1240	1211
100G15	1828	1789	1740	1695	1646	1596	1555	1517	1481	1446	1413
100G17	2089	2045	1988	1937	1881	1824	1777	1734	1692	1653	1615
100G19	2350	2301	2237	2179	2116	2052	1999	1951	1904	1860	1817
100G21	2612	2557	2486	2422	2352	2281	2222	2168	2116	2067	2019
100G23	2873	2812	2734	2664	2587	2509	2444	2384	2327	2273	2220
100G25	3134	3068	2983	2906	2822	2737	2666	2601	2539	2480	2422
100G27	3395	3324	3231	3148	3057	2965	2888	2818	2750	2687	2624
100G29	3656	3579	3480	3390	3292	3193	3110	3035	2962	2893	2826
100G31	3918	3835	3729	3633	3528	3421	3333	3252	3174	3100	3028
100G33	4179	4091	3977	3875	3763	3649	3555	3468	3385	3307	3230

## Performance Specifications - Constant Power

Watts Per Cell to 1.63 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES									
	16	17	18	19	20	25	30	45	60	90
<b>50G</b>										
50G05	244	237	299	223	216	191	172	135	112	86
50G07	366	355	344	335	324	287	258	202	169	129
50G09	489	474	459	446	433	383	344	270	225	173
50G13	733	711	689	670	649	574	516	405	338	259
<b>90G</b>										
90G07	542	529	517	507	496	449	411	329	274	205
90G09	722	705	690	676	662	599	548	439	366	274
90G11	903	882	863	845	827	749	686	549	457	342
90G13	1084	1058	1035	1014	993	899	823	658	549	411
90G15	1264	1235	1208	1183	1158	1049	960	768	641	479
<b>100G</b>										
100G13	1183	1159	1134	1110	1097	988	907	732	618	473
100G15	1381	1352	1323	1295	1268	1153	1059	854	721	552
100G17	1578	1545	1512	1480	1449	1318	1210	977	824	631
100G19	1775	1738	1701	1665	1630	1482	1361	1099	927	710
100G21	1973	1932	1890	1850	1812	1647	1513	1221	1030	789
100G23	2170	2125	2079	2035	1993	1812	1664	1343	1133	868
100G25	2367	2318	2268	2220	2174	1977	1815	1465	1236	947
100G27	2564	2511	2457	2405	2355	2141	1966	1587	1339	1026
100G29	2662	2704	2646	2590	2536	2306	2118	1709	1442	1105
100G31	2959	2898	2835	2775	2718	2471	2269	1832	1545	1184
100G33	3156	3091	3024	2960	2899	2636	2420	1954	1648	1262

## Performance Specifications - Constant Power

Watts Per Cell to 1.65 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES										
	5	6	7	8	9	10	11	12	13	14	15
<b>50G</b>											
50G05	350	339	327	316	305	294	283	274	264	256	247
50G07	525	508	491	474	457	441	425	411	397	384	371
50G09	700	678	655	632	610	588	567	548	529	512	495
50G13	1050	1017	983	948	915	882	851	822	794	768	743
<b>90G</b>											
90G07	691	674	658	642	626	611	595	582	568	555	543
90G09	922	899	878	856	835	814	794	776	758	740	724
90G11	1153	1124	1097	1070	1044	1018	992	970	947	925	905
90G13	1383	1348	1317	1384	1252	1222	1191	1164	1137	1111	1086
90G15	1614	1573	1536	1498	1461	1425	1389	1358	1326	1296	1267
<b>100G</b>											
100G13	1541	1497	1458	1417	1380	1344	1311	1279	1246	1216	1188
100G15	1798	1746	1701	1654	1610	1568	1529	1492	1454	1419	1386
100G17	2055	1996	1944	1890	1840	1792	1748	1705	1662	1622	1584
100G19	2312	2245	2187	2126	2070	2016	1966	1918	1870	1825	1782
100G21	2569	2495	2430	2363	2300	2240	2185	2132	2078	2028	1980
100G23	2825	2744	2673	2599	2530	2464	2403	2345	2285	2230	2178
100G25	3082	2994	2916	2835	2760	2688	2622	2558	2493	2433	2376
100G27	3339	3243	3159	3071	2990	2912	2814	2771	2701	2636	2574
100G29	3596	3493	3402	3308	3220	3136	3059	2984	2909	2839	2772
100G31	3853	3742	3645	3544	3450	3360	3277	3198	3117	3042	2970
100G33	4110	3992	3888	3780	3680	3584	3496	3411	3324	3244	3168

## Performance Specifications - Constant Power

Watts Per Cell to 1.65 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES									
	16	17	18	19	20	25	30	45	60	90
<b>50G</b>										
50G05	240	232	226	219	214	289	170	134	112	86
50G07	360	349	339	329	321	384	256	201	168	129
50G09	480	465	452	439	428	378	341	269	255	172
50G13	720	698	678	659	642	568	512	403	337	259
<b>90G</b>										
90G07	530	519	508	498	487	443	406	362	273	205
90G09	707	692	677	664	650	591	542	435	364	273
90G11	884	865	847	830	813	738	677	544	455	351
90G13	1061	1038	1016	996	975	886	813	653	546	410
90G15	1238	1211	1185	1162	1138	1034	948	761	637	478
<b>100G</b>										
100G13	1162	1139	1114	1090	1068	973	894	725	612	468
100G15	1356	1329	1299	1271	1246	1135	1044	846	714	546
100G17	1550	1519	1485	1453	1424	1297	1193	966	816	624
100G19	1744	1709	1671	1635	1602	1460	1342	1087	918	702
100G21	1938	1899	1857	1817	1781	1622	1491	1208	1020	781
100G23	2131	2088	2042	1998	1959	1784	1640	1329	1122	859
100G25	2325	2278	2228	2180	2137	1946	1789	1450	1224	937
100G27	2519	2468	2414	2362	2315	2109	1939	1571	1326	1015
100G29	2713	2658	2599	2543	2493	2271	2088	1692	1428	1093
100G31	2907	2848	2785	2725	2671	2433	2237	1813	1530	1171
100G33	3100	3038	2971	2907	2849	2595	2386	1933	1632	1249

## Performance Specifications - Constant Power

Watts Per Cell to 1.67 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES										
	5	6	7	8	9	10	11	12	13	14	15
<b>50G</b>											
50G05	314	330	319	308	297	286	276	266	258	249	241
50G07	512	495	478	462	445	429	414	400	387	374	362
50G09	683	660	638	616	594	573	552	533	516	499	483
50G13	1024	991	957	924	891	859	828	800	774	748	725
<b>90G</b>											
90G07	671	655	639	623	609	593	579	565	553	541	529
90G09	895	874	852	831	812	791	772	754	738	722	706
90G11	1119	1092	1066	1039	1015	988	965	943	922	903	882
90G13	1342	1311	1279	1246	1218	1186	1158	1131	1107	1083	1059
90G15	1566	1529	1492	1454	1421	1384	1352	1320	1291	1264	1235
<b>100G</b>											
100G13	1500	1458	1416	1380	1341	1307	1273	1242	1213	1185	1158
100G15	1750	1701	1652	1610	1565	1525	1486	1449	1415	1382	1351
100G17	2000	1944	1888	1840	1788	1743	1698	1656	1617	1580	1544
100G19	2250	2187	2124	2070	2012	1961	1910	1863	1819	1777	1737
100G21	2500	2430	2360	2300	2236	2179	2123	2071	2022	1975	1931
100G23	2750	2673	2596	2530	2459	2396	2335	2278	2224	2172	2124
100G25	3000	2916	2832	2760	2682	2614	2547	2485	2426	2370	2317
100G27	3250	3159	3068	2990	2906	2832	2759	2692	2628	2567	2510
100G29	3500	3402	3304	3220	3130	3050	2972	2899	2830	2765	2703
100G31	3750	3645	3540	3450	3354	3268	3184	3106	3033	2962	2896
100G33	4000	3888	3776	3680	3577	3486	3396	3313	2135	3160	3089

## Performance Specifications - Constant Power

Watts Per Cell to 1.67 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES									
	16	17	18	19	20	25	30	45	60	90
<b>50G</b>										
50G05	234	227	221	215	209	186	168	133	112	86
50G07	352	341	332	323	314	279	253	200	168	129
50G09	469	455	443	430	419	373	337	367	224	172
50G13	704	683	664	646	629	559	506	401	336	258
<b>90G</b>										
90G07	518	507	497	487	477	434	399	321	269	203
90G09	691	677	662	649	636	579	532	429	359	271
90G11	864	846	828	811	796	724	665	536	449	339
90G13	1036	1015	994	974	955	969	799	643	539	407
90G15	1209	1184	1160	1136	1114	1014	932	750	629	475
<b>100G</b>										
100G13	1134	1110	1086	1065	1044	951	880	717	606	464
100G15	1323	1295	1267	1242	1218	1109	1026	836	708	542
100G17	1512	1480	1448	1420	1392	1268	1173	956	809	619
100G19	701	1665	1629	1597	1566	1426	1320	1075	910	696
100G21	1890	1850	1811	1775	1741	1585	1467	1195	1011	774
100G23	2079	2035	1992	1952	1915	1743	1613	1314	1112	851
100G25	2268	2220	2173	2130	2089	1902	1760	1434	1213	929
100G27	2457	2405	2354	2307	2263	2061	1907	1553	1314	1006
100G29	2646	2590	2535	2485	2437	2219	2053	1673	1416	1084
100G31	2835	2775	2716	2662	2611	2378	2200	1793	1517	1161
100G33	3024	2960	2897	2840	2785	2536	2347	1912	1618	1238

## Performance Specifications - Constant Power

Watts Per Cell to 1.71 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES										
	5	6	7	8	9	10	11	12	13	14	15
<b>50G</b>											
50G05	321	309	298	286	276	266	257	249	241	234	227
50G07	482	463	447	429	414	399	386	373	362	352	341
50G09	642	618	596	572	552	533	514	498	483	469	455
50G13	964	927	894	859	828	799	772	747	724	704	683
<b>90G</b>											
90G07	638	615	599	584	570	556	542	531	519	508	497
90G09	851	820	799	778	760	741	723	708	692	678	663
90G11	1064	1025	999	973	950	926	904	885	865	847	829
90G13	1277	1230	1198	1168	1140	1112	1085	1062	1038	1017	995
90G15	1490	1435	1398	1362	1330	1297	1266	1239	1211	1186	1161
<b>100G</b>											
100G13	1396	1351	1314	1278	1244	1215	1185	1158	1132	1110	1086
100G15	1628	1576	1533	1491	1451	1417	1383	1351	1321	1295	1267
100G17	1861	1801	1752	1704	1659	1620	1580	1544	1510	1480	1448
100G19	2094	2026	1971	1917	1866	1822	1778	1737	1699	1665	1629
100G21	2327	2252	2190	2130	2074	2025	1976	1931	1888	1850	1811
100G23	2559	2477	2409	2343	2281	2227	2173	2124	2076	2035	1992
100G25	2792	2702	2628	2556	2488	2430	2371	2317	2265	2220	2173
100G27	3025	2927	2847	2769	2696	2632	2568	2510	2454	2405	2354
100G29	3257	3152	3066	2982	2903	2835	2766	2703	2643	2590	2535
100G31	3490	3378	3285	3195	3111	3037	2964	2896	2832	2775	2716
100G33	3723	3603	3504	3408	3310	3240	3161	3089	3020	2960	2897

## Performance Specifications - Constant Power

Watts Per Cell to 1.71 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES									
	16	17	18	19	20	25	30	45	60	90
<b>50G</b>										
50G05	221	215	210	205	200	180	164	131	111	85
50G07	332	323	315	308	301	270	246	197	166	128
50G09	443	431	421	410	401	360	328	263	222	171
50G13	665	647	631	616	602	541	493	395	333	256
<b>90G</b>										
90G07	487	478	469	460	451	414	382	313	265	202
90G09	650	637	625	613	602	552	510	417	353	269
90G11	813	796	781	767	752	690	738	522	442	337
90G13	975	956	938	920	903	828	765	726	530	404
90G15	1138	1115	1094	1074	1053	967	893	730	619	472
<b>100G</b>										
100G13	1066	1045	1025	1012	988	907	840	690	586	450
100G15	1244	1219	1196	1180	1153	1058	980	805	684	525
100G17	1422	1393	1367	1349	1318	1209	1120	920	782	600
100G19	1600	1567	1538	1518	1483	1361	1260	1035	879	675
100G21	1778	1742	1709	1687	1648	1512	1401	1150	977	751
100G23	1955	1916	1880	1855	1812	1663	1541	1265	1075	826
100G25	2133	2090	2051	2024	1977	1814	1681	1380	1173	901
100G27	2311	2264	2222	2193	2142	1965	1821	1495	1270	976
100G29	2489	2438	2393	2361	2307	2117	1961	1610	1368	1051
100G31	2667	2613	2564	2530	2472	2268	2101	1726	1466	1126
100G33	2844	2787	2735	2699	2636	2419	2241	1841	1564	1201

## Performance Specifications - Constant Power

Watts Per Cell to 1.75 Final Volts Per Cell @ 25°C (77 °F)

CELL TYPE	MINUTES										
	5	6	7	8	9	10	11	12	13	14	15
50G											
50G05	294	282	272	262	253	245	237	231	224	218	212
50G07	441	423	408	393	380	367	356	346	336	327	319
50G09	588	564	544	524	506	490	475	462	448	437	425
50G13	882	846	816	786	760	735	713	693	673	655	638
90G											
90G07	576	560	547	534	521	510	499	488	479	470	460
90G09	768	747	730	712	695	680	665	651	638	626	614
90G11	960	934	912	890	869	850	832	814	798	783	768
90G13	1152	1121	1095	1068	1042	1020	998	977	958	940	921
90G15	1344	1308	1277	1246	1216	1190	1165	1140	1118	1097	1075
100G											
100G13	1260	1227	1195	1170	1141	1111	1093	1071	1050	1030	1011
100G15	1470	1431	1394	1365	1331	1296	1275	1249	1225	1201	1179
100G17	1680	1636	1593	1560	1521	1481	1457	1428	1400	1373	1348
100G19	1890	1840	1792	1755	1711	1666	1639	1606	1575	1545	1516
100G21	2100	2045	1992	1950	1902	1852	1822	1785	1750	1717	1685
100G23	2310	2249	2191	2145	2092	2037	2004	1963	1925	1888	1853
100G25	2520	2554	2390	2340	2282	2222	2186	2142	2100	2060	2022
100G27	2730	2658	2589	2535	2472	2407	2358	2320	2275	2232	2190
100G29	2940	2863	2788	2730	2662	2592	2550	2499	2450	2403	2359
100G31	3150	3067	2988	2925	2853	2778	2733	2677	2625	2575	2527
100G33	3360	3272	3187	3120	3043	2963	2915	2856	2800	2747	2696

## Performance Specifications - Constant Power

Watts Per Cell to 1.75 Final Volts Per Cell @ 25°C (77 °F)

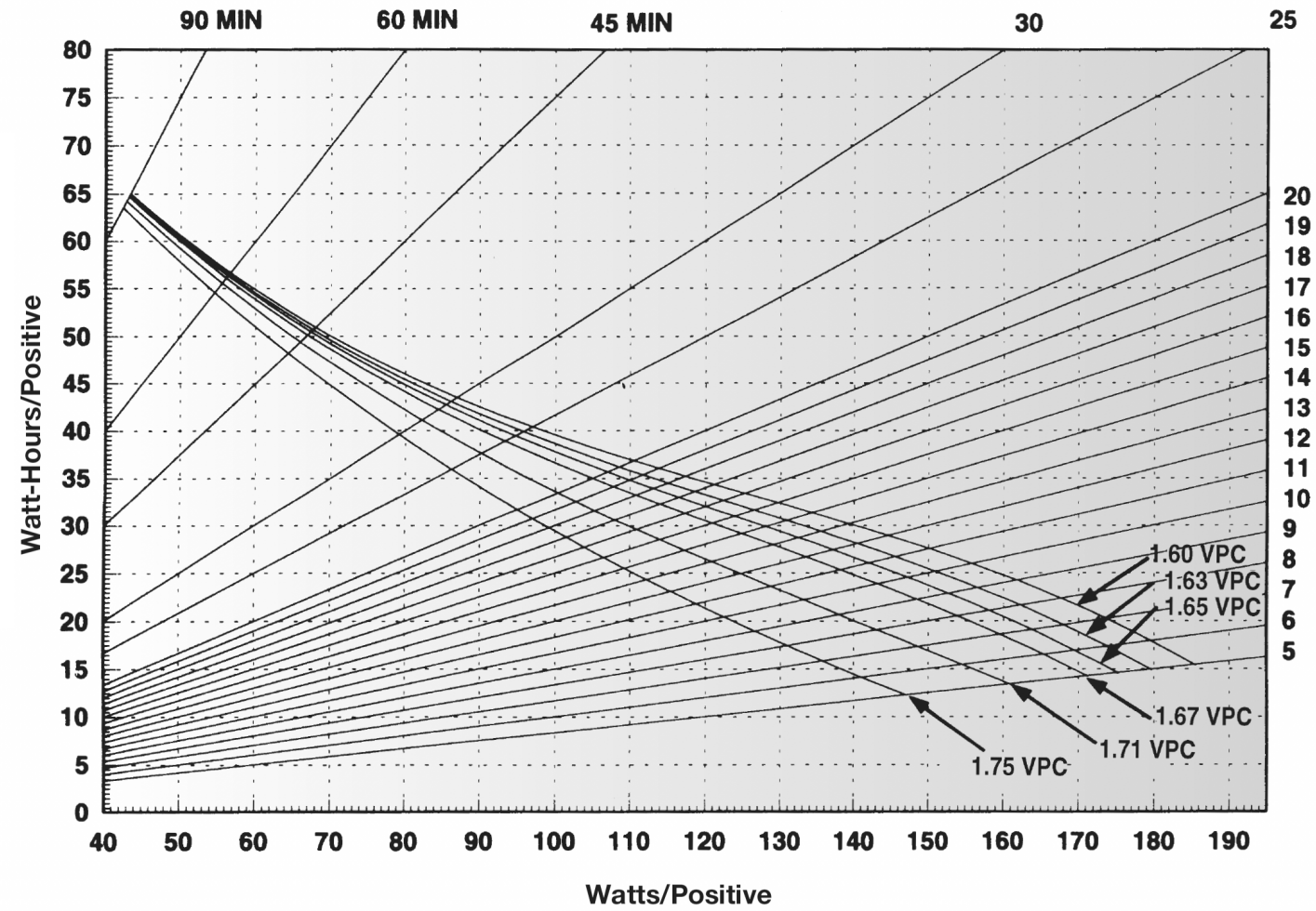
CELL TYPE	MINUTES									
	16	17	18	19	20	25	30	45	60	90
50G										
50G05	207	203	198	194	190	172	158	128	109	84
50G07	311	304	297	291	285	258	237	192	163	127
50G09	415	406	396	388	380	344	316	257	218	169
50G13	623	609	595	582	570	517	475	385	327	254
90G										
90G07	452	444	436	428	421	389	362	300	256	198
90G09	603	592	581	571	562	519	483	400	341	264
90G11	753	740	727	714	703	649	604	500	427	330
90G13	904	888	872	857	843	779	724	600	512	396
90G15	1055	1036	1017	1000	984	909	845	700	598	462
100G										
100G13	992	973	957	940	924	853	793	656	558	430
100G15	1157	1136	1117	1096	1078	996	926	765	652	502
100G17	1323	1298	1276	1253	1232	1138	1058	874	745	573
100G19	1488	1460	1436	1410	1386	1280	1190	984	838	645
100G21	1654	1623	1596	1567	1541	1423	1323	1093	931	717
100G23	1819	1785	1755	1723	1695	1565	1455	1202	1024	689
100G25	1984	1947	1915	1880	1849	1707	1587	1312	1117	860
100G27	2150	2109	2174	2037	2003	1850	1719	1421	1210	932
100G29	2315	2272	2234	2193	2157	1992	1852	1530	1304	1004
100G31	2481	2434	2394	2350	2311	2134	1984	1640	1397	1076
100G33	2646	2596	2553	2507	2465	2277	2116	1749	1490	1147



## Performance Curves

@ 25°C (77°F) – 5 to 90 Minutes

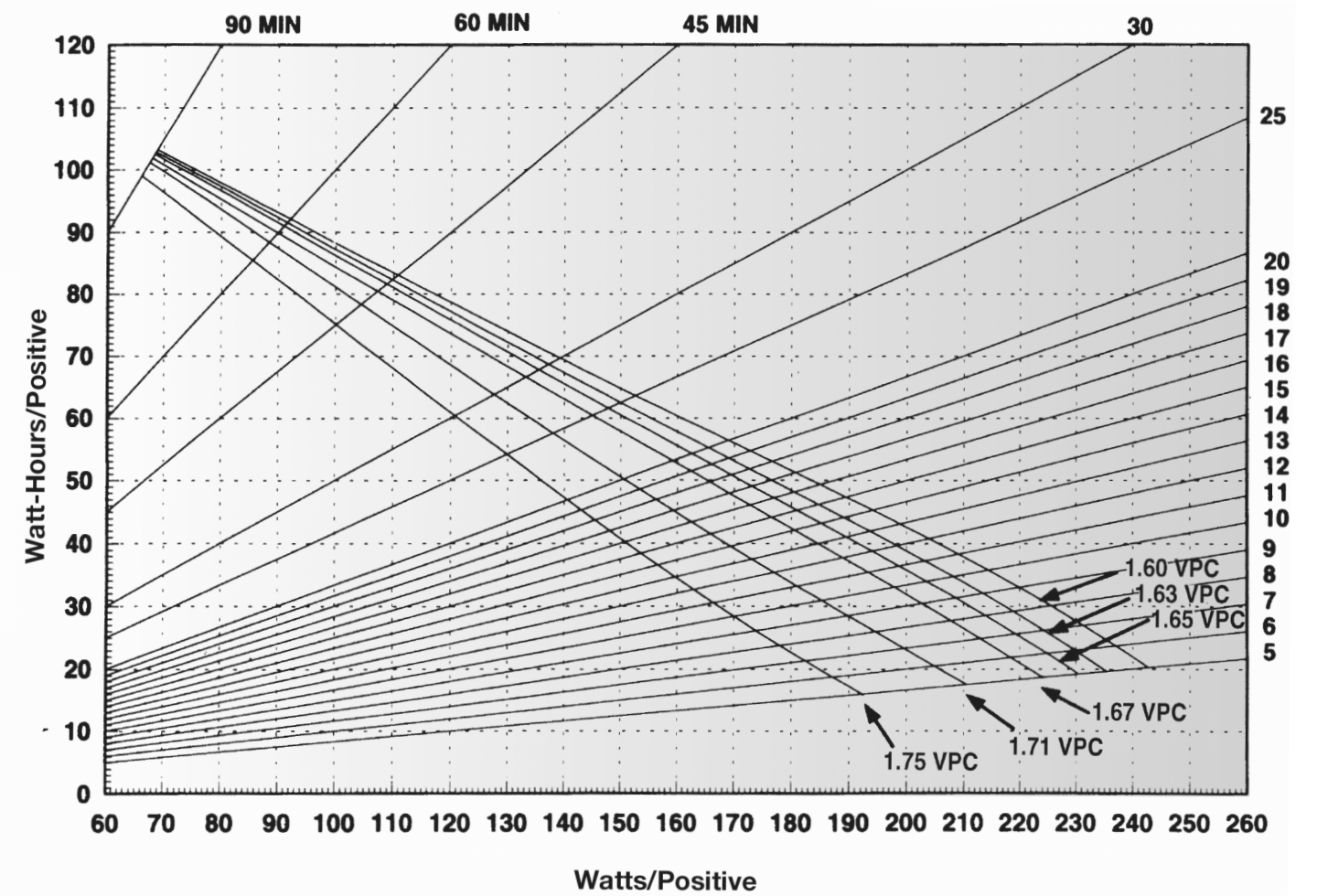
### 50G Series



## Performance Curves

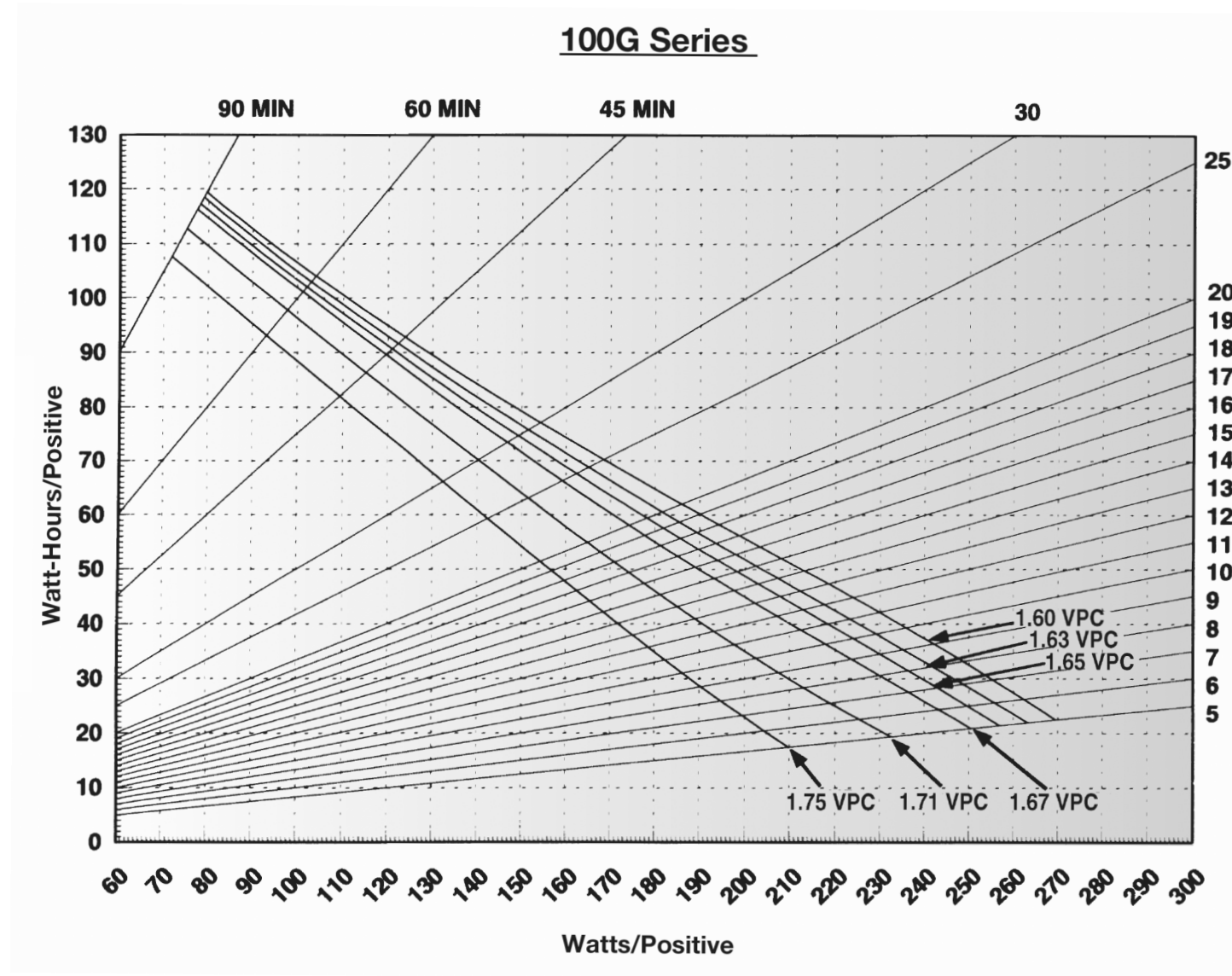
@ 25°C (77°F) – 5 to 90 Minutes

### 90G Series



## Performance Curves

@ 25°C (77°F) – 5 to 90 Minutes



## Maximum Module Stack Heights Horizontal Arrangement

1997 UBC Ground Level Zone					
Series	Height	1	2B	3	4
100G	10 high	100G33	100G33	100G31	100G17
	9 high	100G33	100G33	100G33	100G23
	8 high	100G33	100G33	100G33	100G33
90G	10 high	90G15	90G15	90G15	90G09
	9 high	90G15	90G15	90G15	90G11
	8 high	90G15	90G15	90G15	90G15
50G	10 high	50G09	50G09	50G09	50G09
	9 high	50G11	50G11	50G11	50G11
	8 high	50G15	50G15	50G15	50G15

IEEE 693-2005 Certification Level			
Series	Height	High	Moderate
100G	10 high		
	8 high		X
	5 high		X
90G	10 high		
	8 high		X
	5 high	X	
50G	10 high		
	8 high		X
	5 high	X	

IBC 2018 Certification			
Series	Height	S <sub>DS</sub> at/below grade	S <sub>DS</sub> above grade
100G*	10 high		
	8 high	0.81	0.51
	5 high	0.81	0.51
90G	10 high		
	8 high	0.81	0.51
	5 high	2.50	1.56
50G	10 high		
	8 high	0.81	0.51
	5 high	2.50	1.56

\*For higher SDS design, contact Stryten Energy

## The Energy to Challenge

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