



Amara Raja - Powered by Innovation

The future belongs to those who stake a claim for it here and now. This axiom has been our guiding principle at Amara Raja helping us to ceaselessly innovate and explore the new and never before.

Amara Raja has put its vision into practice by striding forward in the power management industry and consolidating its position as one of the leading players in the Asia-Pacific region. With **Johnson Controls Inc.,** a world leader as an equity alliance partner (26%), Amara Raja pioneered the next generation battery technology in India. This partnership facilitates sharing of knowledge and innovations to accelerate and expand development efforts in the global battery market. It also enables harnessing technology that acclimatizes batteries to operate in harsh tropical conditions.

Working together with alliance partner Johnson Controls, Amara Raja set up India's finest battery plants, the first such facility for Johnson Controls in the last decade. This facility is backed by one of the finest Research and Development centers on site. A center that constantly and unceasingly thinks out of the box and develops products and services that match world-class standards and sets industry benchmarks.

Amara Raja's Battery Excellence Centre is another first for the region. Here, products are put through rigorous tests to ensure that they comply with international standards and design requirements. With the latest testing equipment, the center evaluates battery performance, design and longevity. Apart from this, there are facilities for application engineering, vehicle systems study, simulations and computer-aided design, including a full calibration laboratory. Amara Raja's quality commitment has ensured that it conforms to International quality standards.

Amara Raja today has the distinction of being a prime player in the Johnson Controls led global alliance and is forging ahead into new markets - powered by innovation.





Amara Raja's Powerstack, a hi-performance battery is designed to meet the demands of a wide range of industrial applications. The Powerstack range, modular in structure, is capable of accommodating a wide spectrum of capacities depending on the application. Major application areas include Telecommunications, Power utilities, Railways, Defence and other heavy industries.





POWERSTACK The Reliable Powerhouse

Performance Edge

- Design float life of 20 years
- Proven performance in harsh tropical conditions
- Deep discharge capability
- Unbeatable track record in applications ranging from Telecom to Railways to off-shore platforms

Quality Edge

- QS 9000 accredited across all functional areas and business ranging from manufacturing to service.
- World class ISO 14001 accredited facility













Backed by its unflinching commitment to offer the best of technology and quality, Amara Raja offers you Powerstack, the reliable power house.

APPLICATION SPECTRUM

Powerstack provides robust back up power solutions for varied applications.

Major application areas include:

- **Telecommunications:** (Basic Telephony, Cellular Telephony, Transmission, Last Mile Connectivity, Local Network)
- Uninterruptible Power Supply Systems: (Data Processing, Process Instrumentation, Automated Banking)

Power utilities: (Switchgear & Instrumentation Controls, Transmission & Distribution)

• **Railways:** (Train lighting & Airconditioning)

• Solar Photovoltaics (SPV): (Off shore oil exploration platforms & Cathodic protection)

• Process & Service Industry

• Defence

TECHNICAL SPECIFICATIONS

Product:

• **Container & Cover :** Polypropylene Co-polymer (Fire-retardant optional)

• Separator: Spun glass micro-porous matrix

• Positive Plate: Flat-pasted Type

• Positive Plate Alloy: Hybrid Alloy with deep discharge and long life characteristics

• Negative Plate: Flat-pasted Type

• Negative Plate Alloy: Lead Calcium Alloy with Maintenance-Free characteristics

• Safety valve: Self resealing, Pressure regulated, explosion-proof

• **Terminals**: Lead terminals with copper inserts

• Connectors : Heavy-duty lead plated copper connectors

• Trays: Acid resistant MS Trays, self-stackable type











RANGE SPECIFICATIONS

Powerstack is available in varied ranges to meet their customers' complex business needs. Powerstack isavailable in modular design, with 2V as the basic cell, with capacities ranging from 100Ah to 6000Ah housed in self-stackable MS Trays, as shown in the data sheet

DISCHARGE DATA: Attached

Performance:

• **Self-discharge:** Less than 1% per week

• **Shelf life without re-charge:** Upto 6 Months*

• Operating conditions: -40°C to $+55^{\circ}\text{C}$

• **Design Float Life:** Upto 20 Years

• Design Cycle Life: - 4000 Cycles at 20% Depth Of Discharge

- 2000 Cycles at 50% Depth Of Discharge

- 1200 Cycles at 80% Depth of Discharge

Note: All values are rated at 27°C. Charging parameters at 27°C

Method: Constant Potential Current Limited

Charge Provision	Charging Voltage	Maximum Charging current (Amps
Float charge	2.23 VPC	0.2 C
Boost charge	2.30 VPC	0.2 C

C is the rated capacity @ 10 hour

*Please refer to Operating Instructions for storage instructions



POWERSTACK

Cell	Nominal Ah Capacity	Module			ensions 5 mm				Moudle	e weight	Packed weigh	T	
type	@ C10 to 1.75 ECV at 27C	Voltage	Len MM	gth IN	MM Wi	dth IN	Hei MM	ght IN	KGS	LBS	KGS	LBS	Ŏ
5005	100	12	615	24.21	395	15.55	163	6.42	68	150	445	981	S
5009	200	12	615	24.21	395	15.55	240	9.45	107	236	465	1025	ERS 1
													刀
6005	120	12	615	24.21	458	18.03	163	6.42	80	176	515	1136	S
6009	240	12	615	24.21	458	18.03	240	9.45	127	280	545	1202	
6011	300	12	615	24.21	458	18.03	278	10.94	150	331	630	1389	AC
6013	360	12	615	24.21	458	18.03	315	12.40	175	386	735	1621	C
													天
8009	345	12	615	24.21	580	22.83	240	9.45	168	370	705	1555	
8011	430	12	615	24.21	580	22.83	278	10.94	199	439	830	1830	
8013	515	12	615	24.21	580	22.83	315	12.40	230	507	955	2106	RAN
8015	600	12	615	24.21	580	22.83	353	13.90	261	576	818	1804	
8017	690	6	615	24.21	580	22.83	225	8.86	157	346	663	1462	<u>G</u>
8021	860	6	615	24.21	580	22.83	261	10.28	188	415	785	1731	П
8025	1030	6	615	24.21	580	22.83	300	11.81	220	485	915	2018	
8033	1375	6	615	24.21	580	22.83	376	14.80	284	626	888	1958	
8045	1800	12	615	24.21	580	22.83	1060	41.73	783	1727	818	1804	
8051	2070	6	615	24.21	580	22.83	675	26.57	471	1039	663	1462	
8063	2580	6	615	24.21	580	22.83	783	30.83	564	1244	785	1731	
8075	3090	6	615	24.21	580	22.83	900	35.43	660	1455	915	2018	
8099	4125	6	615	24.21	580	22.83	1125	44.29	852	1879	888	1958	
80126	5160	6	615	24.21	580	22.83	1566	61.65	1128	2487	785	1731	
80132	5500	6	615	24.21	580	22.83	1504	59.21	1704	3757	888	1958	
9013	570	12	615	24.21	650	25.59	315	12.40	258	569	1062	2342	
9015	665	12	615	24.21	650	25.59	353	13.90	294	648	917	2022	
9017	760	6	615	24.21	650	25.59	225	8.86	176	388	740	1632	
9021	950	6	615	24.21	650	25.59	261	10.28	211	465	880	1940	
9025	1140	6	615	24.21	650	25.59	300	11.81	246	542	1020	2249	
9033	1520	6	615	24.21	650	25.59	376	14.80	321	708	1000	2205	
9039	1710	12	615	24.21	650	25.59	945	37.20	774	1707	1062	2342	
9045	1995	12	615	24.21	650	25.59	1060	41.73	882	1945	917	2022	
9051	2280	6	615	24.21	650	25.59	675	26.57	528	1164	740	1632	
9063	2850	6	615	24.21	650	25.59	783	30.83	633	1396	880	1940	
9075	3420	6	615	24.21	650	25.59	900	35.43	738	1627	1020	2249	
9099	4560	6	615	24.21	650	25.59	1128	44.41	963	2123	1000	2205	
90132	6080	6	615	24.21	650	25.59	1504	59.21	1284	2831	1000	2205	
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114 109 103

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999 944 896 852 826

2996 2833 2687 2555 2479

5003 4731 4487

553 523 496

737 697 661

1934 1829 1735

5333 | 5043 | 4782 | 4547

645 610 578 550

921 871 826 785 762

2763 2613 2478 2356 2287

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628 610

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651 621 586

3275 | 3070 | 2889 | 2739 | 2604 | 2484 | 2345 | 2211 | 2090 | 1982 | 1885 | 1830

4912 | 4605 | 4334 | 4108 | 3906 | 3726 | 3517 | 3316 | 3136 | 2974 | 2828 | 2744

417 394 374 356

291 275 261 248 241

349 | 330 | 313 | 298 | 289

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Cell type	Nominal Ah Capacity @ C10 at 27C	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
50																				
5005	100	206	188	180	171	158	146	138	129	122	115	109	103	99	94	90	86	83	80	٠
5009	200	412	376	360	342	317	293	276	259	243	230	218	207	197	188	180	173	166	160	
60																				'
6005	120	247	226	216	205	190	176	166	155	146	138	131	124	118	113	108	104	100	96	
6009	240	494	451	432	410	380	351	331	310	292	276	261	248	237	226	216	208	199	192	
6011	300	617	564	540	513	475	439	414	388	365	345	326	310	296	283	270	259	249	239	
6013	360	741	677	648	615	570	527	497	466	438	414	392	372	355	339	325	311	299	287	ľ
80																				
8009	345	710	649	621	590	547	505	476	446	420	396	375	357	340	325	311	298	287	275	
8011	430	885	808	774	735	681	630	594	556	523	494	468	445	424	405	388	372	357	343	
8013	515	1060	968	927	880	816	754	711	666	627	592	560	533	508	485	464	445	428	411	
8015	600	1235	1128	1080	1026	951	878	828	776	730	689	653	621	592	565	541	519	498	479	1
8017	690	1420	1297	1242	1180	1093	1010	953	893	840	793	751	714	680	650	622	597	573	551	
8021	860	1770	1617	1548	1470	1363	1259	1187	1113	1047	988	936	890	848	810	775	744	714	687	
8025	1030	2120	1936	1854	1761	1632	1508	1422	1333	1254	1184	1121	1066	1016	970	929	891	855	822	
8033	1375	2830	2585	2475	2350	2179	2013	1898	1779	1674	1580	1496	1423	1356	1295	1240	1189	1142	1098	
8045	1800	3705	3384	3240	3077	2852	2635	2485	2329	2191	2068	1959	1862	1775	1696	1623	1556	1495	1437	
8051	2070	4260	3892	3726	3539	3280	3030	2858	2678	2519	2379	2253	2142	2041	1950	1866	1790	1719	1652	
8063	2580	5310	4850	4644	4410	4088	3777	3562	3338	3140	2965	2808	2669	2544	2430	2326	2231	2143	2060	
8075	3090	6360	5809	5562	5282	4896	4524	4266	3998	3761	3551	3363	3197	3047	2911	2786	2672	2566	2467	
8099	4125	8490	7755	7425	7051	6536	6039	5695	5337	5021	4740	4489	4268	4068	3886	3719	3567	3426	3293	(
80126	5160	10620	9701	9288	8821	8176	7554	7124	6676	6280	5929	5615	5339	5089	4861	4653	4461	4285	4119	
80132	5500	11320	10340	9900	9402	8714	8052	7593	7115	6694	6320	5985	5691	5424	5181	4959	4755	4568	439	
90																				
9013	570	1173	1072	1026	974	903	834	787	737	694	655	620	590	562	537	514	493	473	455	
9015	665	1369	1250	1197	1137	1054	974	918	860	809	764	724	688	656	626	600	575	552	531	
9017	760	1564	1429	1368	1299	1204	1113	1049	983	925	873	827	786	749	716	685	657	631	607	
9021	950	1955	1786	1710	1624	1505	1391	1312	1229	1156	1092	1034	983	937	895	857	821	789	758	
9025	1140	2346	2143	2052	1949	1806	1669	1574	1475	1388	1310	1241	1179	1124	1074	1028	986	947	910	
9033	1520	3128	2858	2736	2598	2408	2225	2099	1966	1850	1747	1654	1573	1499	1432	1371	1314	1262	1213	
9045	1995	4106	3751	3591	3410	3161	2921	2754	2581	2428	2292	2171	2064	1967	1879	1799	1725	1657	1593	
9051	2280	4693	4286	4104	3898	3612	3338	3148	2950	2775	2620	2481	2359	2248	2148	2056	1971	1894	1820	
9063	2850	5866	5358	5130	4872	4516	4172	3935	3687	3469	3275	3101	2949	2811	2685	2570	2464	2367	2275	
9075	3420	7039	6430	6156	5846	5419	5007	4722	4424	4163	3930	3722	3538	3373	3222	3084	2957	2840	2730	
9099	4560	9385	8573	8208	7795	7225	6676	6296	5899	5550	5240	4962	4718	4497	4296	4112	3943	3787	3640	
90132	6080	12513	11430	10944	10393	9633	8901	8394	7866	7400	6986	6616	6291	5996	5727	5482	5257	5049	4854	

213

256

640 768

736

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753

902 843

1050 982

1208 1129

11004 10028 9526 9034 8446 7856

11729 | 10689 | 10154 | 9629 | 9003 | 8374 |

4254 | 3877 | 3683 | 3493 | 3266 | 3037 |

4862 | 4431 | 4209 | 3992 | 3732 | 3471 |

6078 | 5539 | 5262 | 4990 | 4665 | 4339 |

7293 | 6646 | 6314 | 5987 | 5598 | 5207 |

570 | 1216 | 1108 | 1052 | 998 | 933 | 868 |

233 222 210

670 637

836 794

1341 1274

1001

152

196 183

393 365

565 525

655

784

1050 991 929

1834 | 1671 | 1588 | 1506 | 1408 | 1309 | 1235 | 1158 | 1090 | 1033 |

704

144

287 269

172

345 323

496

740 693

862 808

2197 | 2002 | 1902 | 1803 | 1686 | 1568 | 1479 | 1387 | 1305 | 1237 | 1176 | 1122 | 1059 |

6590 | 6005 | 5705 | 5410 | 5058 | 4704 | 4438 | 4160 | 3915 | 3712 | 3529 | 3366 | 3178 |

1418 | 1292 | 1228 | 1164 | 1089 | 1012 | 955 | 895 | 843 | 799 | 759 | 724 | 684 |

1621 | 1477 | 1403 | 1331 | 1244 | 1157 | 1092 | 1023 | 963 | 913 | 868 | 828 | 782 |

2026 | 1846 | 1754 | 1663 | 1555 | 1446 | 1365 | 1279 | 1204 | 1141 | 1085 | 1035 | 977 |

583 | 554 | 525 | 491 | 457 | 431 | 404 | 380 | 360 | 343 | 327 | 308 |

700 | 665 | 630 | 589 | 548 | 517 | 485 | 456 | 432 | 411 | 392 | 370 |

135

162

127 120

253 240

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465 437 414

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760

874 829

1375 | 2932 | 2672 | 2538 | 2407 | 2251 | 2093 | 1975 | 1851 | 1742 | 1652 | 1570 | 1498 | 1414 | 1333 | 1261 | 1196 | 1137 | 1103

3839 | 3498 | 3323 | 3151 | 2946 | 2740 | 2585 | 2424 | 2281 | 2162 | 2056 | 1961 | 1851 | 1745 | 1650 | 1565 | 1488 | 1444 4414 | 4023 | 3822 | 3624 | 3388 | 3151 | 2973 | 2787 | 2623 | 2487 | 2364 | 2255 | 2129 | 2007 | 1898 | 1800 | 1711 | 1661 502 5014 4763 4517 4223 3928 3706 3474 3269 3099 2946 2811 2653 2502 2365 2243 2133 2070

8797 | 8017 | 7615 | 7222 | 6752 | 6280 | 5925 | 5554 | 5227 | 4955 | 4711 | 4494 | 4242 | 4000 | 3782 | 3587 | 3410 | 3310

7411 6948 6538 6199 5893 5621

819 767 722 685

2431 | 2215 | 2105 | 1996 | 1866 | 1736 | 1637 | 1535 | 1445 | 1369 | 1302 | 1242 | 1172 | 1105 | 1045 | 991

3241 2954 2806 2661 2488 2314 2183 2047 1926 1826 1736 1656 1563 1474 1394 1322 1257 1220

2865 | 2686 | 2528 | 2397 | 2278 | 2173 | 2051 |

4094 3837 3611 3424 3255 3105 2931

9724 | 8862 | 8418 | 7983 | 7464 | 6942 | 6550 | 6140 | 5778 | 5478 | 5207 | 4968 | 4689 | 4422 | 4181 | 3965 | 3770 | 3659

6080 | 12966 | 11816 | 11225 | 10644 | 9952 | 9257 | 8733 | 8186 | 7704 | 7304 | 6943 | 6624 | 6252 | 5895 | 5574 | 5286 | 5027 | 4879 |

7900 | 7405 | 6969 | 6607 | 6281 | 5992 | 5656 |

721

618 579 545 517

152 144

288



99 94

108 103 99

215 | 206 | 197 | 190 | 182

323 | 309 | 296 | 284 | 273

309 296 284 272 262

385 | 369 | 354 | 340 | 327

424

771 738 707 679 653

923 884 847 813 782

4626 4426 4243 4075 3920

511 489 469 450 433

1788 | 1711 | 1641 | 1576 | 1515

2555 2445 2344 2251

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619 592 567

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354 340 324

441 424 404

615 591 563

707 680 648

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Cell	Nominal Ah		MINUTES		DISCHAGE CURRENT IN AMPS											
type	Capacity to 1.75 @ C10 at 27C	5	15	30	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	24h	
50																
5005	100	101	84	71	54	33	25	20	17	15	13	12	10	8.6	4.7	
5009	200	202	168	143	108	67	51	41	34	30	26	24	20	17	9.5	
60																
6005	120	121	100	86	64	40	30	24	20	18	16	14	12	10	6	
6009	240	242	201	172	129	81	61	49	41	36	32	28	24	20	11.4	
6011	300	303	252	215	162	101	77	62	52	45	40	36	30	25	14.2	
6013	360	363	302	258	194	122	92	74	62	54	48	43	36	31	17	
80																
8009	345	348	289	248	186	116	88	71	60	51	46	41	34	29	16	
8011	430	434	361	309	232	145	110	89	74	64	57	51	43	37	20	
8013	515	520	432	370	278	174	132	106	89	77	68	62	51	44	24	
8015	600	606	504	431	324	203	154	124	104	90	80	72	60	51	28	
8017	690	696	579	496	372	233	177	142	120	103	92	83	69	59	32	
8021	860	868	722	618	464	291	221	178	149	129	114	103	86	74	40	
8025	1030	1040	865	741	556	349	265	213	179	154	137	124	103	88	49	
8033	1375	1388	1155	989	743	466	354	284	239	206	183	165	137	118	65	
8045	1800	1818	1512	1294	972	610	463	372	313	270	240	216	180	155	85	
8051	2070	2090	1739	1489	1118	701	533	428	360	310	276	249	207	178	98	
8063	2580	2606	2168	1856	1394	874	664	534	449	387	344	310	258	222	122	
8075	3090	3121	2596	2223	1670	1047	796	639	538	463	413	372	309	266	147	
8099	4125	4166	3466	2967	2229	1398	1063	854	718	619	551	496	412	355	196	
80126	5160	5212	4336	3712	2789	1749	1329	1068	898	774	689	621	516	444	245	
80132	5500	5555	4621	3956	2972	1864	1417	1138	958	825	735	662	550	474	261	
90																
9013	570	575	478	410	308	193	146	118	99	85	76	68	57	49	27	
9015	665	671	558	478	359	225	171	137	115	99	88	80	66	57	31	
9017	760	767	638	546	410	257	195	157	132	114	101	91	76	65	36	
9021	950	959	798	683	513	322	244	196	165	142	127	114	95	81	45	
9025	1140	1151	957	820	616	386	293	236	198	171	152	137	114	98	54	
9033	1520	1535	1277	1093	821	515	391	314	264	228	203	183	152	131	72	
9045	1995	2015	1676	1435	1078	676	514	413	347	299	266	240	199	171	95	
9051	2280	2303	1915	1640	1232	772	587	472	397	342	304	274	228	196	108	
9063	2850	2878	2394	2050	1540	966	734	590	496	427	381	343	285	245	135	
9075	3420	3454	2873	2460	1848	1159	881	708	595	513	457	412	342	294	162	
9099	4560	4606	3831	3280	2464	1545	1175	944	794	684	609	549	456	393	217	
90132	6080	6141	5109	4374	3286	2061	1567	1258	1059	912	812	732	608	524	289	

174

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4946 | 4619 | 4275 | 4028 | 3824 | 3647 |

162 150

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805 768

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123 111

583 | 540 | 509 | 483 | 461 | 443 | 400 | 456 | 385 | 369 | 355 | 338 |

246 222

127 107

253 214

486 | 450 | 424 | 402 | 384 | 369 | 333 | 380 | 321 | 307 | 296 | 282 | 269 | 257 | 247 | 237 | 228

161 | 154 | 148 | 133 | 152 | 128 | 123 | 118 | 113 |

295 267 304 257

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 4477
 4181
 3870
 3647
 3461
 3302
 3171
 2867
 3269
 2759
 2644
 2542
 2422
 2313
 2213
 2122
 2038
 1960

 5362
 5008
 4635
 4367
 4146
 3954
 3798
 3433
 3915
 3304
 3167
 3044
 2900
 2770
 2651
 2541
 2440
 2347

 7158
 6685
 6188
 5830
 5534
 5279
 5071
 4583
 5227
 4411
 4228
 4064
 3872
 3698
 3538
 3392
 3258
 3134

9544 | 8914 | 8250 | 7774 | 7379 | 7038 | 6761 | 6111 | 6969 | 5882 | 5637 | 5418 | 5163 | 4930 | 4718 | 4523 | 4344 | 4178

665 | 1154 | 1078 | 998 | 940 | 892 | 851 | 817 | 739 | 843 | 711 | 682 | 655 | 624 | 596 | 570 | 547 | 525 | 505

760 | 1319 | 1232 | 1140 | 1074 | 1020 | 973 | 934 | 844 | 963 | 813 | 779 | 749 | 713 | 681 | 652 | 625 | 600 | 577 |

| 1978 | 1848 | 1710 | 1611 | 1529 | 1459 | 1401 | 1267 | 1445 | 1219 | 1168 | 1123 | 1070 | 1022 | 978 | 938 |

1649 | 1540 | 1425 | 1343 | 1275 | 1216 | 1168 | 1056 | 1204 | 1016 | 974 | 936 | 892 | 852 | 815 | 781 | 750 | 722

2638 2463 2280 2148 2039 1945 1868 1689 1926 1625 1558 1497 1427 1363 1304 1250 1200 1155

3956 3695 3420 3223 3059 2918 2803 2533 2889 2438 2337 2246 2140 2044 1956 1875 1801 1732

5935 | 5543 | 5130 | 4834 | 4588 | 4377 | 4204 | 3800 | 4334 | 3657 | 3505 | 3369 | 3210 | 3066 | 2934 | 2813 | 2701 | 2598

7913 7390 6840 6445 6118 5836 5605 5067 5778 4876 4674 4492 4280 4088 3912 3750 3601 3464

6080 | 10551 | 9854 | 9120 | 8594 | 8157 | 7781 | 7474 | 6756 | 7704 | 6502 | 6232 | 5989 | 5707 | 5450 | 5215 | 5000 | 4802 | 4619

3503 3167 3611 3048 2921 2808 2675

572

633

738 667

848 767

 860
 1492
 1394
 1290
 1216
 1154
 1101
 1057
 956
 1090
 920
 881
 847
 807

 1030
 1787
 1669
 1545
 1456
 1382
 1318
 1266
 1144
 1305
 1101
 1056
 1015
 967

8954 | 8363 | 7740 | 7293 | 6923 | 6603 | 6343 | 5733 | 6538 | 5518 | 5289 | 5083 | 4844 |

924 855 806 765 729 701 633 722 610 584 562 535

3462 3233 2993 2820 2677 2553 2452 2217 2528 2133 2045 1965 1873

102

205



10h 12h 24h

9.6

DISCHAGE CURRENT IN AMPS

MINUTES

2825 2171 1356

Capacity to 1.75

@ C10 at 27C

5005

AMPERES	
ERES TO 1.80 E	ATIC
ECV @ 27°C	
	(I)

POWERST/ICK)	11
I CMFIZDINIOIS	"
	/

Cell	Nominal Ah	DISCHAGE CURRENT IN AMPS										
type	Capacity to 1.75 @ C10 at 27C	1h	2 hrs	3 hrs	4 hrs	5 hrs	6 hrs	7 hrs	8 hrs	10 hrs	12 hrs	24 hrs
50												
5005	100	50	31	23	19	15	13	12	10	9	8	4
5009	200	100	62	47	38	31	27	24	21	18	16	8
60												
6005	120	60	37	28	23	19	16	14	13	10	9	5
6009	240	120	75	56	46	38	32	29	26	21	19	10
6011	300	150	94	71	57	47	41	36	32	27	24	13
6013	360	180	112	85	69	57	49	43	39	32	28	15
80												
8009	345	172	108	81	66	54	47	42	37	31	27	15
8011	430	215	134	101	82	68	58	52	47	38	34	18
8013	515	257	161	122	99	81	70	62	56	46	41	22
8015	600	300	188	142	115	95	82	73	65	54	48	26
8017	690	345	216	163	132	109	94	84	75	62	55	30
8021	860	430	269	203	165	136	117	104	94	77	68	37
8025	1030	515	322	244	198	163	141	125	113	93	82	44
8033	1375	687	431	325	264	218	188	167	151	124	110	59
8045	1800	900	564	426	346	286	246	219	197	162	144	78
8051	2070	1035	648	490	398	329	283	252	227	187	165	90
8063	2580	1290	808	611	496	410	353	314	283	233	206	112
8075	3090	1545	968	732	594	491	423	376	339	279	247	134
8099	4125	2062	1293	977	793	655	565	503	453	373	330	179
80126	5160	2580	1617	1222	992	820	706	629	567	466	412	224
80132	5500	2750	1724	1303	1057	874	753	670	604	497	440	239
90												
9013	570	285	178	135	109	90	78	69	62	51	45	24
9015	665	332	208	157	127	105	91	81	73	60	53	28
9017	760	380	238	180	146	120	104	92	83	68	60	33
9021	950	475	297	225	182	151	130	115	104	85	76	41
9025	1140	570	357	270	219	181	156	139	125	103	91	49
9033	1520	760	476	360	292	241	208	185	167	137	121	66
9045	1995	997	625	472	383	317	273	243	219	180	159	86
9051	2280	1140	714	540	438	362	312	278	250	206	182	99
9063	2850	1425	893	675	548	453	390	347	313	257	228	123
9075	3420	1710	1072	810	657	543	468	417	375	309	273	148
9099	4560	2280	1429	1080	876	724	624	556	501	412	364	198
90132	6080	3040	1905	1440	1169	966	832	741	668	550	486	264



AMPERE

S

1.90

ECV

Cell	Nominal Ah Capacity to 1.75					DISCHAG	E CURRENT	IN AMPS					
type	@ C10 at 27C	1h	2 hrs	3 hrs	4 hrs	5 hrs	6 hrs	7 hrs	8 hrs	10 hrs	12 hrs	24 hrs	
50													
5005	100	44	28	21	17	14	12	11	10	8	7	3	
5009	200	89	56	42	34	29	25	22	20	16	14	7	
60													
6005	120	53	34	25	20	17	15	13	12	9	8	4	
6009	240	107	68	51	41	35	30	26	24	19	17	9	
6011	300	134	85	63	52	44	37	33	30	24	21	11	
6013	360	161	102	76	62	52	45	40	36	29	25	14	
80													
8009	345	154	98	73	60	50	43	38	34	28	24	13	
8011	430	192	122	91	74	63	54	48	43	35	30	16	
8013	515	230	146	109	89	75	64	57	51	41	36	20	
8015	600	269	170	127	104	88	75	67	60	48	42	23	
8017	690	309	196	147	120	101	87	77	69	56	49	27	
8021	860	385	244	183	149	126	108	96	86	70	61	33	
8025	1030	461	292	219	179	151	129	115	103	83	73	40	
8033	1375	616	390	293	239	201	173	154	138	112	97	53	١
8045	1800	807	511	383	313	264	226	201	181	146	128	70	
8051	2070	928	588	441	360	303	261	232	208	168	147	81	
8063	2580	1156	732	550	448	378	325	289	260	210	183	101	
8075	3090	1385	877	658	537	453	389	346	311	251	219	121	
8099	4125	1849	1171	879	717	605	520	462	416	336	293	161	
80126	5160	2313	1465	1100	897	757	650	578	520	420	366	202	
80132	5500	2466	1562	1172	956	807	693	616	554	448	391	215	
90													
9013	570	255	161	121	99	83	71	63	57	46	40	22	
9015	665	298	188	141	115	97	83	74	67	54	47	26	
9017	760	340	215	162	132	111	95	85	76	61	54	29	
9021	950	426	269	202	165	139	119	106	95	77	67	37	
9025	1140	511	323	243	198	167	143	127	115	92	81	44	
9033	1520	681	431	324	264	223	191	170	153	123	108	59	
9045	1995	894	566	425	346	292	251	223	201	162	141	78	
9051	2280	1022	647	486	396	334	287	255	230	185	162	89	
9063	2850	1278	809	607	495	418	359	319	287	232	202	111	
9075	3420	1533	971	729	594	502	431	383	345	278	243	134	
9099	4560	2044	1295	972	793	669	575	511	460	371	324	178	
90132	6080	2726	1727	1296	1057	892	766	681	613	495	432	238	

Note: Due to company's ongoing product improvement process, the design and specifications are subject to change without prior notice.

These models are horizontal stacking type.

