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PRIMAGE NI-CD BATTERY

Manufacturers of Nickel Cadmium
Pocket Plate Cells & Batteries

Performance Data - KPH

DISCHARGE CURRENT IN AMPS AT 20 DEG C
END CELL VOLTAGE: 1.14 Volt Cell

CELL TYPE	C5 AH	HOURS					MINUTES						SECONDS		
		5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KPH 24 P	24	4.4	7.2	10.6	13.7	19.2	28.3	34.2	38.6	44.5	56.3	85	97	115	119
KPH 29 P	29	5.3	8.7	12.8	16.6	23.3	34.2	41.3	46.6	53.8	68	102.6	117	139	144
KPH 33 P	33	6.1	9.9	14.5	18.8	26.4	38.9	47	53	61.2	77.4	117	134	158	163
KPH 38 P	38	7	11.4	16.7	21.7	30.4	45	54	61	70	89	134	154	182	188
KPH 43 P	43	7.9	12.9	18.9	24.5	34.4	51	61	69	80	101	152	174	205	213
KPH 48 P	48	8.8	14.4	21.1	27.4	38.4	57	68	77	89	113	170	194	229	238
KPH 53 P	53	9.8	15.9	23.4	30.3	42.4	63	75	85	98	124	188	214	253	262
KPH 62 P	62	11.4	18.7	27	35	50	73	88	100	115	145	219	251	296	307
KPH 72 P	72	13.3	21.7	32	41	58	85	103	116	133	169	255	291	344	356
KPH 83 P	83	15.3	25	37	47	66	98	118	134	154	194	294	336	397	411
KPH 94 P	94	17.3	28.3	41	54	75	111	134	151	174	220	333	381	449	465
KPH 104 P	104	19.2	31.3	46	59	83	123	148	167	193	244	368	421	497	515
KPH 115 P	115	21.2	35	51	66	92	136	164	185	213	269	407	466	549	569
KPH 128 P	128	23.6	39	56	73	102	151	182	206	237	300	453	518	612	633
KPH 142 P	142	26.2	43	63	81	114	167	202	228	263	333	502	575	678	702
KPH 155 P	155	28.6	47	68	88	124	183	221	249	288	363	548	627	741	767
KPH 168 P	168	31	51	74	96	134	198	239	270	312	394	594	680	803	831
KPH 181 P	181	33.4	54	80	103	145	213	258	291	336	424	640	733	865	859
KPH 194 P	194	35.8	58	85	111	155	229	276	312	360	455	686	785	927	960
KPH 207 P	207	38.2	62	91	118	166	244	295	333	384	485	732	838	989	1024
KPH 220 P	220	40.6	66	97	126	176	259	313	353	408	515	778	891	1051	1088
BLOCK CELLS															
KPH 175 P	175	32.3	53	77	100	140	206	249	281	324	410	619	708	836	866
KPH 185 P	185	34.1	56	82	106	148	218	263	297	343	434	654	749	884	915
KPH 195 P	195	35.9	59	86	111	156	230	278	313	362	457	690	789	932	965
KPH 215 P	215	39.6	65	95	123	172	253	306	345	399	504	760	870	1027	1064
KPH 225 P	225	41.5	68	99	128	180	265	320	362	417	527	769	911	1075	1113
KPH 240 P	240	44.2	72	106	137	192	283	342	386	445	562	849	971	1147	1187
KPH 250 P	250	46.1	75	110	143	200	295	356	402	464	586	884	1012	1195	1237
KPH 265 P	265	48.9	80	117	151	212	312	377	426	491	621	937	1073	1266	1311
KPH 280 P	280	51.6	84	123	160	224	330	399	450	519	656	990	1133	1338	1385
KPH 290 P	290	53.5	87	128	166	232	342	413	466	538	680	1026	1174	1386	1435
KPH 305 P	305	56.2	92	134	174	244	359	434	490	565	715	1079	1234	1457	1509
KPH 320 P	320	59	96	141	183	256	377	456	514	593	750	1132	1295	1529	1583
KPH 340 P	340	62.7	102	150	194	272	401	484	546	630	797	1202	1376	1625	1682
KPH 360 P	360	66.4	108	159	205	288	424	513	578	667	844	1273	1457	1720	1781
KPH 380 P	380	70	114	167	217	304	448	541	611	705	891	1344	1538	1816	1880
KPH 400 P	400	73.7	120	176	228	320	471	570	643	742	937	1415	1619	1911	1979
KPH 415 P	415	77	125	183	237	332	489	591	667	769	973	1468	1679	1983	2063
KPH 430 P	430	79	129	189	246	344	507	612	691	797	1008	1521	1740	2055	2138
KPH 455 P	455	84	137	200	260	364	536	648	731	843	1067	1609	1841	2174	2262
KPH 475 P	475	88	143	209	271	380	560	676	763	880	1113	1680	1922	2270	2361
KPH 490 P	490	90	147	216	280	392	578	698	788	908	1149	1733	1983	2341	2436
KPH 515 P	515	95	155	227	294	412	607	733	828	955	1207	1821	2084	2461	2560
KPH 535 P	535	99	161	236	306	428	631	762	860	992	1254	1892	2165	2556	2660
KPH 555 P	555	102	167	244	317	444	654	790	892	1029	1301	1963	2246	2652	2759
KPH 575 P	575	106	173	253	328	460	678	819	924	1066	1348	2033	2327	2746	2858
KPH 600 P	600	111	180	264	343	480	707	854	964	1112	1407	2122	2428	2867	2983
KPH 635 P	635	117	191	280	363	508	749	904	1021	1177	1489	2246	2570	3034	3157
KPH 650 P	650	120	195	286	371	520	766	926	1045	1205	1524	2299	2630	3106	3231
KPH 685 P	685	126	206	302	391	548	808	975	1101	1270	1606	2422	2772	3273	3405
KPH 710 P	710	131	213	313	405	568	837	1011	1141	1316	1664	2511	2873	3392	3530
KPH 730 P	730	135	219	322	417	584	861	1040	1173	1353	1711	2582	2954	3488	3629
KPH 760 P	760	140	228	335	434	607	896	1082	1221	1409	1782	2688	3075	3631	3778
KPH 800 P	800	147	240	352	457	639	943	1139	1286	1483	1875	2829	3237	3822	3977
KPH 820 P	820	151	247	361	468	655	967	1168	1318	1520	1922	2900	3319	3918	4056
KPH 855 P	855	158	257	376	488	683	1008	1218	1374	1585	2004	3024	3460	4085	4229
KPH 900 P	900	166	271	396	514	719	1061	1282	1446	1668	2110	3183	3642	4300	4452
KPH 925 P	925	171	278	407	528	739	1091	1317	1487	1715	2168	3271	3744	4419	4576
KPH 960 P	960	177	289	423	548	767	1132	1367	1543	1780	2250	3395	3885	4587	4749
KPH 1000 P	1000	185	301	440	571	799	1179	1424	1607	1854	2344	3536	4047	4778	4947
KPH 1030 P	1030	190	310	454	588	823	1214	1467	1655	1909	2414	3642	4169	4921	5095
KPH 1080 P	1080	199	325	476	617	863	1273	1538	1736	2002	2531	3819	4371	5160	5342
KPH 1100 P	1100	203	331	485	628	879	1297	1567	1768	2039	2578	3890	4452	5256	5441
KPH 1145 P	1145	211	345	505	654	915	1350	1631	1840	2122	2684	4049	4634	5471	5664
KPH 1200 P	1200	221	361	529	685	959	1415	1709	1928	2224	2813	4243	4857	5734	5936

Performance Data - KPM

DISCHARGE CURRENT IN AMPS AT 20 DEG C
END CELL VOLTAGE: 1.14 Volt Cell

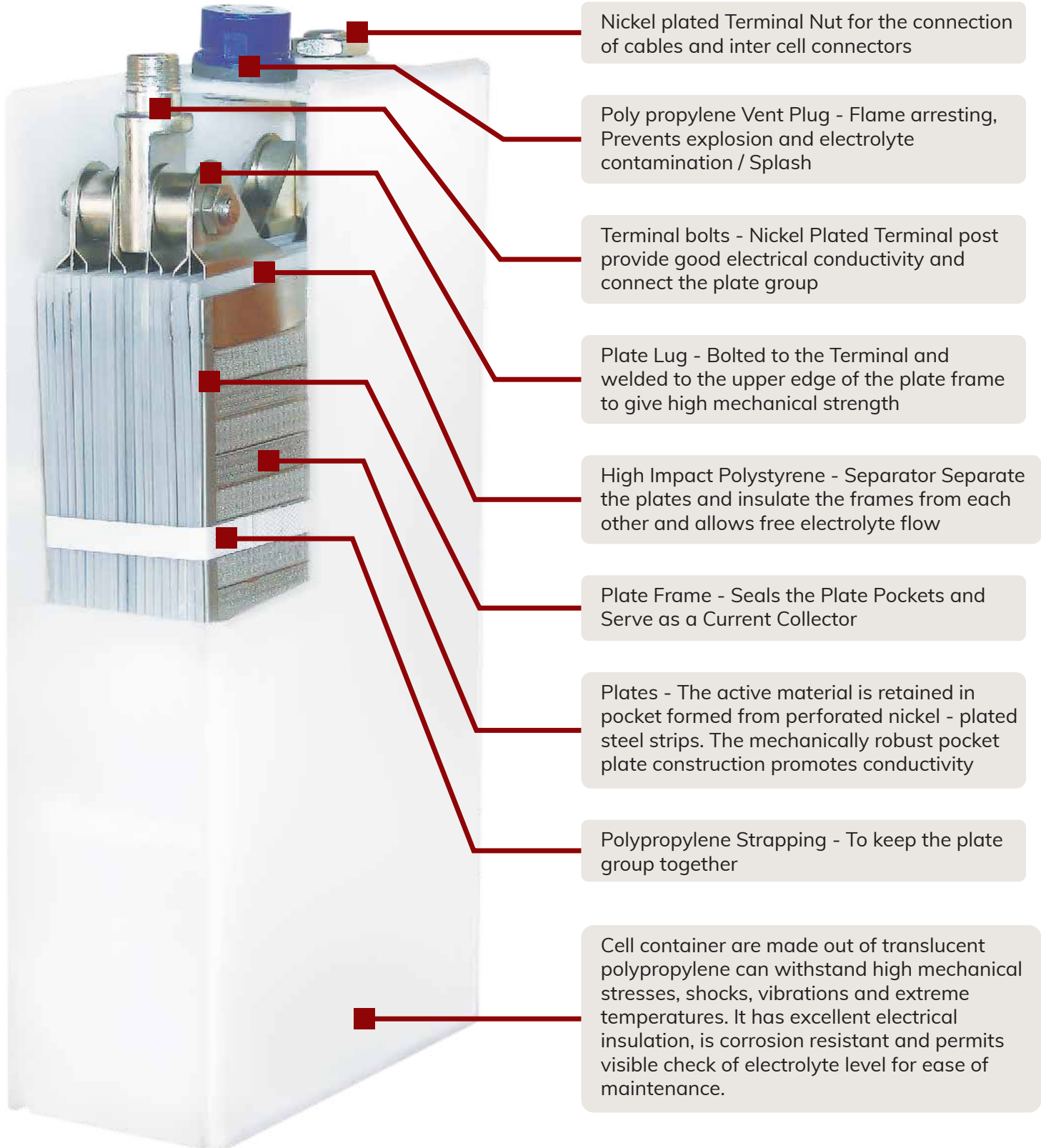
CELL TYPE	C5 AH	HOURS					MINUTES						SECONDS		
		5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KPM 11	11	2.1	3.3	4.6	5.9	6.9	9.3	10.7	11.9	14	16	23	25	29	30
KPM 15	15	2.8	4.5	6.3	8	9.4	12.6	14.7	16.2	18	22	31	34	40	41
KPM 20	20	3.7	6	8.4	10.7	12.6	16.8	19.5	21.6	25	29	41	46	53	55
KPM 25	25	4.7	7.5	10.5	13.3	16	21	24	27	31	37	51	57	66	68
KPM 35	35	6.5	10.5	14.7	18.7	22	29	34	38	43	51	72	80	92	95
KPM 40	40	7.5	12	16.8	21.3	25	34	39	43	49	59	82	91	106	109
KPM 50	50	9.4	15	21	26.7	32	42	49	54	62	73	103	114	132	136
KPM 60	60	11.2	18	25.2	32	38	51	59	65	74	88	123	137	158	164
KPM 70	70	13.1	21	29.4	37.3	44	59	68	75	86	103	144	160	185	191
KPM 80	80	15	24	33.6	42.6	50	67	78	86	98	117	164	183	211	218
KPM 90	90	16.8	27	37.8	48	57	76	88	97	111	132	185	206	238	245
KPM 100	100	18.7	30	42	53.3	63	84	98	108	123	147	205	229	264	273
KPM 105	105	19.6	31.5	44.1	56	66	88	103	113	129	154	215	240	277	286
KPM 115	115	21.5	34.5	48.3	61.3	72	97	112	124	141	168	236	263	304	313
KPM 125	125	23.4	37.5	52.5	66.6	79	105	122	135	154	183	256	286	330	341
KPM 140	140	26.2	42	58.8	74.6	88	118	137	151	172	205	287	320	370	382
KPM 150	150	28.1	45	63	80	95	126	147	162	185	220	308	343	396	409
KPM 165	165	30.9	49.5	69.3	87.9	104	139	161	178	203	242	338	377	436	450
KPM 170	170	31.8	51	71.4	90.6	107	143	166	183	209	249	349	388	449	463
KPM 180	180	33.7	54	75.6	95.9	113	152	176	194	221	264	369	411	475	491
KPM 200	200	37.4	60	84	106.6	126	168	195	216	246	293	410	457	528	545
KPM 210	210	39.3	63	88.2	111.9	132	177	205	226	258	308	431	480	554	572
KPM 220	220	41.1	66	92.4	117.3	139	185	215	237	271	322	451	503	581	600
KPM 240	240	44.9	72	100.8	127.9	151	202	234	259	295	352	492	548	634	654
KPM 265	265	49.6	79.5	111.3	141.2	167	223	259	286	326	388	543	606	700	722
KPM 290	290	54.2	87	121.8	154.6	183	244	283	313	357	425	595	663	766	790
KPM 310	310	58	93	130.2	165.2	195	261	303	334	381	454	636	708	818	845
KPM 330	330	61.7	99	138.6	175.9	208	278	322	356	406	483	677	754	871	899
KPM 355	355	66.4	106.5	149.1	189.2	224	299	347	383	437	520	728	811	937	967
KPM 385	385	72	115.5	161.7	205.2	243	324	376	415	474	564	789	880	1016	1049
KPM 410	410	76.7	123	172.2	218.5	258	345	401	442	504	601	841	937	1082	1117
KPM 440	440	82.3	132	184.8	234.5	277	370	430	474	541	645	902	1005	1162	1199
KPM 470	470	87.9	141	197.4	250.5	296	396	459	507	578	689	964	1074	1241	1281
KPM 500	500	93.5	150	210	266.5	315	421	489	539	615	733	1025	1143	1320	1363
KPM 540	540	101	162	227	288	340	455	528	582	664	791	1107	1234	1426	1472
KPM 575	575	108	173	242	306	362	484	562	620	707	842	1179	1314	1518	1567
KPM 620	620	116	186	260	330	391	522	606	668	763	908	1271	1417	1637	1690
KPM 660	660	123	198	277	352	416	556	645	711	812	967	1353	1508	1742	1799
KPM 700	700	131	210	294	373	441	589	684	755	861	1026	1435	1600	1848	1908
KPM 750	750	140	225	315	400	473	631	733	809	923	1099	1538	1714	1980	2044
KPM 770	770	144	231	323	410	485	648	752	830	947	1128	1579	1759	2033	2098
KPM 825	825	154	248	347	440	520	694	806	889	1015	1209	1692	1885	2178	2248
KPM 880	880	165	264	370	469	554	741	860	949	1082	1289	1804	2011	2323	2398
KPM 935	935	175	281	393	498	589	787	913	1008	1150	1370	1917	2136	2468	2548
KPM 990	990	185	297	416	528	624	833	967	1067	1218	1450	2030	2262	2614	2698
KPM 1040	1040	194	312	437	554	655	875	1016	1121	1279	1524	2133	2376	2746	2834
KPM 1100	1100	206	330	462	586	693	926	1075	1186	1353	1612	2256	2514	2904	2998
KPM 1165	1165	218	350	489	621	734	981	1138	1256	1433	1707	2389	2662	3076	3175
KPM 1240	1240	232	372	521	661	781	1044	1211	1337	1525	1817	2543	2833	3274	3379
KPM 1320	1320	247	396	554	704	832	1111	1290	1423	1624	1934	2707	3016	3485	3597
KPM 1410	1410	264	423	592	752	888	1187	1378	1520	1734	2066	2891	3222	3722	3842
KPM 1500	1500	281	450	630	800	945	1263	1466	1617	1845	2198	3076	3428	3960	4088

Performance Data - KPL

DISCHARGE CURRENT IN AMPS AT 20 DEG C
END CELL VOLTAGE: 1.14 Volt Cell

CELL TYPE	C5 AH	HOURS								MINUTES						SECONDS		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1	
KPL 12 P	12	1.2	1.4	2.3	3.6	4.6	5.2	6.1	7.6	8.5	9.1	10.1	11.8	15.3	16.6	17.8	18	
KPL 20 P	20	2	2.4	3.8	5.9	7.6	8.7	10.2	12.6	14.2	15.2	16.8	19.6	25.5	27.7	29.6	30	
KPL 25 P	25	2.5	3	4.7	7.4	9.5	10.9	12.7	15.7	17.7	19	20.9	24.5	31.8	34.6	37	37.5	
KPL 35 P	35	3.4	4.2	6.6	10	13	15	18	22	25	27	29	34	45	48	52	53	
KPL 40 P	40	3.9	4.8	7.6	12	15	17	20	25	28	30	34	39	51	55	59	60	
KPL 50 P	50	4.9	6	9.4	15	19	22	25	31	35	38	42	49	64	69	74	75	
KPL 55 P	55	5.4	6.6	10.4	16	21	24	28	35	39	42	46	54	70	76	81	83	
KPL 60 P	60	5.9	7.2	11.3	18	23	26	31	38	42	46	50	59	76	83	89	90	
KPL 75 P	75	7.4	9.1	14.2	22	28	33	38	47	53	57	63	74	95	104	111	113	
KPL 80 P	80	7.8	9.7	15.1	24	30	35	41	50	57	61	67	78	102	111	118	120	
KPL 85 P	85	8.3	10.3	16.1	25	32	37	43	54	60	65	71	83	108	118	126	128	
KPL 95 P	95	9.3	11.5	18	28	36	41	48	60	67	72	80	93	121	131	141	143	
KPL 100 P	100	9.8	12.1	18.9	30	38	44	51	63	71	76	84	98	127	138	148	150	
KPL 110 P	110	10.8	13.3	20.8	33	42	48	56	69	78	84	92	108	140	152	163	165	
KPL 125 P	125	12.3	15.1	23.6	37	47	54	64	79	88	95	105	123	159	173	185	188	
KPL 135 P	135	13.2	16.3	25.5	40	51	59	69	85	96	103	113	132	172	187	200	203	
KPL 150 P	150	14.7	18.1	28.3	45	57	65	76	94	106	114	126	147	191	207	222	225	
KPL 160 P	160	15.7	19.3	30.2	47	61	70	82	101	113	122	134	157	204	221	237	240	
KPL 170 P	170	16.7	20.5	32.1	50	65	74	87	107	120	129	142	167	216	235	252	255	
KPL 180 P	180	17.6	21.7	34	53	68	78	92	113	127	137	151	176	229	249	266	270	
KPL 195 P	195	19.1	23.6	36.8	58	74	85	99	123	138	148	163	191	248	270	289	293	
KPL 210 P	210	20.6	25.4	39.7	62	80	91	107	132	149	160	176	206	267	290	311	315	
KPL 225 P	225	22.1	27.2	42.5	67	85	98	115	142	159	171	188	221	286	311	333	338	
KPL 240 P	240	23.5	29	45.4	71	91	104	122	151	170	182	201	235	305	332	355	360	
KPL 250 P	250	24.5	30.2	47.2	74	95	109	127	157	177	190	209	245	318	346	370	375	
KPL 265 P	265	26	32	50.1	79	101	115	135	167	188	201	222	260	337	367	392	398	
KPL 280 P	280	27.5	33.8	52.9	83	106	122	143	176	198	213	235	275	356	387	415	420	
KPL 290 P	290	28.4	35	54.8	86	110	126	148	183	205	220	243	284	369	401	429	435	
KPL 310 P	310	30.4	37.4	58.6	92	118	135	158	195	219	236	260	304	395	429	459	465	
KPL 320 P	320	31.4	38.6	60.5	95	122	139	163	202	226	243	268	314	407	443	474	480	
KPL 340 P	340	33.3	41.1	64.2	101	129	148	173	214	241	258	285	333	433	470	503	510	
KPL 370 P	370	36.3	44.7	69.9	110	141	161	189	233	262	281	310	363	471	512	548	555	
KPL 400 P	400	39.2	48.3	75.6	119	152	174	204	252	283	304	335	392	509	553	592	600	
KPL 430 P	430	42.2	51.9	81.3	128	163	187	219	271	304	327	360	422	547	595	637	645	
KPL 440 P	440	43.1	53.1	83.1	131	167	191	224	277	311	334	369	431	560	609	651	660	
KPL 470 P	470	46.1	56.8	88.8	139	179	204	240	296	333	357	394	461	598	650	696	705	
KPL 490 P	490	48	59.2	92.6	145	186	213	250	309	347	372	410	480	624	678	725	735	
KPL 500 P	500	49	60.4	94.5	148	190	218	255	315	354	380	419	490	636	692	740	750	
KPL 530 P	530	52	64	100.1	157	201	231	270	334	375	403	444	520	675	733	785	795	
KPL 565 P	565	55.4	68.2	106.8	168	215	246	288	356	400	429	473	554	719	781	836	848	
KPL 595 P	595	58.3	71.9	112.4	177	226	259	303	375	421	452	498	583	757	823	881	893	
KPL 630 P	630	61.8	76.1	119	187	239	274	321	397	446	479	528	618	802	871	933	945	
KPL 655 P	655	64.2	79.1	123.8	194	249	285	334	413	464	498	549	642	834	906	970	983	
KPL 700 P	700	68.6	84.5	132.3	208	266	305	357	441	495	532	586	686	891	968	1036	1050	
KPL 735 P	735	72.1	88.8	138.9	218	279	320	375	463	520	558	616	721	935	1017	1088	1103	
KPL 750 P	750	73.5	90.6	141.7	223	285	326	382	472	531	570	628	735	955	1037	1110	1125	
KPL 800 P	800	78.4	96.6	151.2	237	304	348	408	504	566	608	670	784	1018	1106	1184	1200	
KPL 850 P	850	83.3	102.7	160.6	252	323	370	433	535	602	646	712	833	1082	1176	1258	1275	
KPL 880 P	880	86.3	106.3	166.3	261	334	383	449	554	623	669	737	863	1120	1217	1303	1320	
KPL 935 P	935	91.7	112.9	176.7	277	355	407	477	589	662	710	783	917	1190	1293	1384	1403	
KPL 985 P	985	96.6	119	186.1	292	374	429	502	620	697	748	825	966	1254	1362	1458	1478	
KPL 1000 P	1000	98.1	120.8	189	297	380	435	510	630	708	760	838	981	1273	1383	1481	1500	
KPL 1070 P	1070	104.9	129.2	202.2	318	406	466	545	674	757	813	896	1049	1362	1480	1584	1605	
KPL 1130 P	1130	110.8	136.5	213.5	335	429	492	576	712	800	859	947	1108	1438	1563	1673	1695	
KPL 1160 P	1160	113.7	140.1	219.2	344	441	505	591	731	821	881	972	1137	1476	1604	1717	1740	
KPL 1230 P	1230	120.6	148.6	232.4	365	467	535	627	775	871	934	1030	1206	1565	1701	1821	1845	
KPL 1260 P	1260	123.5	152.2	238.1	374	479	548	642	794	892	957	1055	1235	1604	1743	1865	1890	
KPL 1340 P	1340	131.4	161.8	253.2	398	509	583	683	844	948	1018	1122	1314	1705	1853	1984	2010	
KPL 1410 P	1410	138.3	170.3	266.4	418	536	613	719	888	998	1071	1181	1383	1795	1950	2088	2115	
KPL 1485 P	1485	145.6	179.4	280.6	441	564	646	757	935	1051	1128	1244	1456	1890	2054	2199	2228	
KPL 1500 P	1500	147.1	181.2	283.4	445	570	653	765	945	1062	1140	1256	1471	1909	2075	2221	2250	
KPL 1600 P	1600	156.9	193.2	302.3	475	608	696	816	1008	1132	1216	1340	1569	2036	2213	2369	2400	
KPL 1700 P	1700	166.7	205.3	321.2	504	646	740	867	1071	1203	1292	1424	1667	2164	2351	2517	2550	

Cell Construction



Product Range

	KPH Range	KPM Range	KPL Range
Capacity Range	24 Ah to 1200 Ah	11 Ah to 1500 Ah	12 Ah to 1700 Ah
Back-up Duration	Less than 30 minutes of duration	Between 30 minutes to 3 hours	Over 3 hours
Characteristics	The H range cell is made of very thin plates and is designed for applications where there is a demand for a relatively high current over short periods.	The M range is designed for applications in which the batteries are subject to loads which involve a combination of high and low discharge rates.	The L range cell has thicker plates and is designed to provide a reliable source of energy over relatively long discharge duration. The discharge current is relatively low when compared to the total energy stored in the system and the discharges are infrequent.
Application	Engine / Generator starting and UPS applications	Switchgear applications, Emergency lighting. UPS	Security, Fire Alarms, Railway signaling and Telecommunication.



PRIMAGE ENERGY SDN. BHD. (1249964-W)

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