

SEC NICKEL CADMIUM

SEC NI-CAD BATTERIES

NICKEL CADMIUM - VALVE REGULATED

Extreme Low Maintenance Ni-Cad Cells

SEC Industrial Battery Company's Nickel Cadmium Valve Regulated batteries are available for a wide range of applications.

APPLICATIONS

- Telecommunications
- UPS Systems
- Power and Substations
- Oil and Gas Refineries
- Railway
- Diesel Engine Starting
- Emergency Lighting
- Traction Batteries
- Photovoltaic & Wind Power
- Offshore Equipment
- Onboard Ship Equipment
- Process Control



**Approved by Telecom and Power
Authorities Worldwide**

Series Type KGL...P - For Low Discharge Rates
12 to 1300 A/h in Plastic Cases

Series Type KGM...P - For Medium Discharge Rates
11 to 1250 A/h in Plastic Cases

Nickel Cadmium valve regulated cells using pocket plate technology is the latest battery concept for applications requiring absolute reliability with minimum of routine maintenance

With a design life of more than 20 years they have proved to be a very reliable DC power source in float service or cyclic applications in harsh conditions with temperature up to 60° C.

Specific Design Features:

- * Combination of well proven pocket plate design and extreme low maintenance concept
- * Exceptionally long life with minimized maintenance no need for topping up but is possible if required
- * Recombination rate > 70% (IEC 62259) - up to 90% can be reached depending on temperature and float voltage
- * Available as KGL---P for low discharge rates and KGM---P range for medium discharge rates
- * Exceptional capacity range from 11 Ah. to 1390Ah.
- * Same dimensions as standard pocket plate cells for easy replacement
- * Cell designed for economical replacement and to eliminate risk of leakage
- * Cell cases formed by injection moulding out of one piece
- * Only lid is welded on the cell case - weld seam lies over the electrolyte level
- * Big cell containers are moulded out of one piece-not shaped through several small cell container-this is UNIQUE.
- * SEC single cell design eliminates risk of faulty weld seams on the side and on the bottom of the cell
- * Problem with bloc cells : aging of plastic causes higher risk of leakage at weld seams
- * Economical replacement - If one cell fails only one cell has to be replaced

Equalizing voltage range: 1.55 to 1.65 Volts/cell.
SEC Nickel Cadmium range comprises three types of high, medium and low rate discharge

Charging Output Current

The batteries are supplied in single cell units complete with inter-cell connectors, pole insulation and cable lugs.

Electrolyte is supplied filled or in solid dry flake for filling on site.

The batteries can be supplied in taped blocks or wooden crates. Mechanical data for taped blocks and wooden crates available on request.

KGL - P Range

The L range is designed for applications where the battery is required to provide energy over relatively long discharge period. Typical uses are power back-up and bulk Energy storage.

KGM - P Range

The M range is designed for applications where the batteries are required to sustain electrical loads for between 30 mins to 3 hours or for mixed loads which involves a mixture of high and low discharge rates. The range is typically used in power back-up applications.

Capacity

The nominal rated capacity C5 of a cell is the capacity in ampere hours (A/H) available at the 5-hour discharge rate to 1.0 volts/cell, in accordance with DIN EN 60623 and IEC 623. Nominal Voltage is 1.2 volts/Cell.

Charging

In general all standard charging methods with W-, I-, IU-characteristics are possible.

Constant Voltage Charging

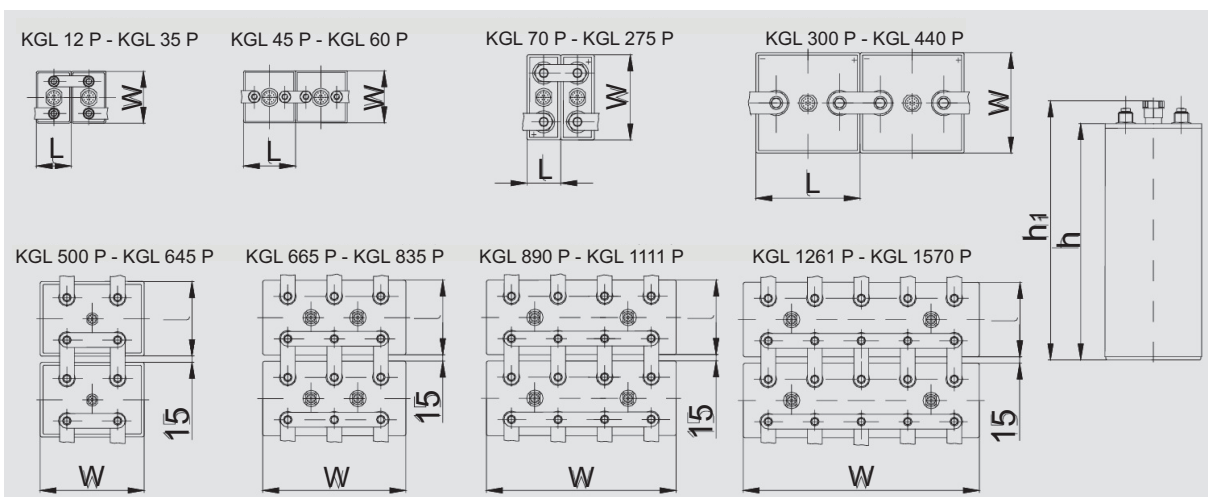
Float Voltage range: 1.40 to 1.42 Volts/cell.
The maximum charging output current is 2.5 at 25° C, provided that the charging Voltage Limit is not higher than 1.68 volts/cell.
The minimum recommended charging rate is

Constant Current Charging

Standard charge: 15 for 7 to 8 hours
Fast recharge: 2 I5 for 2.5 hours,
Followed by 15 for 2 to 3 hours
Minimum effective rate: 1.5 mA/Ah
Temperature coefficient: -3 to -4 mV/°C
The electrolyte temperature should never exceed 45°C during charging.

Cell Type KGL---P in Plastic Case single cell - Low Discharge - Specification

Cell Type	Nom. Cap. C5 (Ah.) 1.00V	Dimensions Single Cell (mm)			Terminal Bolt Diameter	Number of Terminal Bolts	Cell Weight Kg
		L	W	Ht			
KGL 12 P	12	46	85	167	M10	2	1.00
KGL 20 P	20	46	85	237	M10	2	1.50
KGL 25 P	25	46	85	237	M10	2	1.50
KGL 35 P	35	46	85	237	M10	2	1.60
KGL 45 P	45	85	85	237	M10	2	2.70
KGL 50 P	50	85	85	237	M10	2	2.80
KGL 60 P	60	85	85	237	M10	2	3.00
KGL 70 P	70	53	134	364	M8	2	4.90
KGL 80 P	80	53	134	364	M8	2	5.00
KGL 100 P	100	69	134	364	M8	2	6.20
KGL 120 P	120	69	134	364	M8	2	6.50
KGL 135 P	135	70	164	364	M8	2	7.70
KGL 155 P	155	70	164	364	M8	2	7.80
KGL 175 P	175	108	164	364	M8	2	10.60
KGL 205 P	205	108	164	364	M8	2	10.90
KGL 225 P	225	108	164	364	M8	2	11.20
KGL 245 P	245	108	164	364	M8	2	11.60
KGL 275 P	275	108	164	364	M8	2	12.20
KGL 300 P	300	164	158	364	M10	2	16.30
KGL 330 P	330	164	158	364	M10	2	16.50
KGL 350 P	350	164	158	364	M10	2	17.00
KGL 375 P	375	164	158	364	M10	2	17.50
KGL 390 P	390	164	158	364	M10	2	18.00
KGL 420 P	420	164	158	364	M10	2	18.50
KGL 440 P	440	164	158	364	M10	2	18.90
KGL 500 P	500	176	246	382	M10	4	27.30
KGL 555 P	555	176	246	382	M10	4	28.30
KGL 585 P	585	176	246	382	M10	4	28.70
KGL 610 P	610	176	246	382	M10	4	29.30
KGL 645 P	645	176	246	382	M10	4	29.80
KGL 665 P	665	176	368	382	M10	6	40.70
KGL 705 P	705	176	368	382	M10	6	41.40
KGL 750 P	750	176	368	382	M10	6	41.90
KGL 795 P	795	176	368	382	M10	6	42.60
KGL 835 P	835	176	368	382	M10	6	43.10
KGL 890 P	890	176	448	382	M10	8	49.20
KGL 990 P	990	176	448	382	M10	8	53.70
KGL 1110 P	1100	176	448	382	M10	8	56.00
KGL 1260 P	1260	176	558	382	M10	10	64.30
KGL 1320 P	1320	176	558	382	M10	10	66.80
KGL 1390 P	1390	176	558	382	M10	10	68.90
KGL 1460 P	1460	176	558	382	M10	10	70.50
KGL 1570 P	1570	176	558	382	M10	10	71.60





Final discharge voltage 1.15 Volts per cell @ 20 - 25C - Electrical Specification

Cell Type	Discharge Current (A) / Discharge time in minutes				Discharge Current (A) / Discharge Time in Hours										
	5 min	10 min	20 min	30 min	1	1.50	2	3	4	5	6	7	8	9	10
KGL 12 P	6.00	5.70	5.30	5.10	4.30	3.71	3.26	2.62	2.33	2.20	1.85	1.60	1.42	1.27	1.16
KGL 20 P	9.80	9.30	8.60	8.30	7.10	6.10	5.40	4.28	3.80	3.60	3.03	2.62	2.32	2.08	1.89
KGL 25 P	13.1	12.4	11.5	11.1	11.0	9.40	8.10	7.10	4.78	4.52	3.80	3.29	2.91	2.61	2.37
KGL 35 P	16.4	15.5	14.4	13.9	11.7	10.1	8.90	7.10	6.40	6.00	5.05	4.37	3.86	3.47	3.15
KGL 45 P	23.1	20.7	19.2	18.5	15.6	13.5	11.8	9.50	8.50	8.00	6.73	5.83	5.15	4.62	4.20
KGL 50 P	30.3	27.2	25.2	24.3	20.0	17.7	15.6	12.4	9.80	9.10	7.66	6.63	5.86	5.26	4.78
KGL 60 P	38.0	34.0	31.0	30.0	24.3	21.9	19.4	15.1	12.1	10.8	9.09	7.87	6.95	6.24	5.67
KGL 70 P	38.0	37.0	35.0	34.0	27.0	23.4	21.0	16.3	13.8	12.8	10.8	9.30	8.20	7.40	6.70
KGL 80 P	44.0	43.0	40.0	39.0	31.0	27.1	24.2	18.8	15.6	14.5	12.2	10.6	9.30	8.40	7.60
KGL 100 P	53.0	51.0	49.0	46.0	37.0	32.5	29.1	22.5	19.2	17.7	14.9	12.9	11.4	10.2	9.30
KGL 120 P	65.0	63.0	59.0	57.0	46.0	39.7	35.6	27.5	23.5	21.8	18.3	15.9	14.0	12.6	11.4
KGL 135 P	74.0	67.0	65.0	64.0	50.0	44.0	39.2	32.4	26.7	24.5	20.6	17.9	15.8	14.2	12.9
KGL 155 P	82.0	76.0	71.0	66.0	56.0	49.0	43.9	36.2	30.7	28.2	23.7	20.5	18.2	16.3	14.8
KGL 175 P	94.0	86.0	81.0	75.0	65.0	56.0	50.0	41.4	34.6	31.8	26.8	23.2	20.5	18.4	16.7
KGL 205 P	108	100	94.0	87.0	75.0	65.0	58.0	47.9	40.6	37.3	31.4	27.2	24.0	21.6	19.6
KGL 225 P	120	111	104	97.0	82.0	72.0	64.0	53.0	44.5	40.9	34.4	29.8	26.3	23.6	21.5
KGL 245 P	127	117	110	102	87.0	79.0	70.0	55.0	48.5	44.5	37.5	32.4	28.6	25.7	23.4
KGL 275 P	140	130	122	113	97.0	87.0	78.0	61.0	54.4	50.0	42.1	36.4	32.2	28.9	26.3
KGL 300 P	152	140	131	122	105	94.0	84.0	66.0	59.5	54.6	46.0	39.8	35.1	31.5	28.7
KGL 330 P	174	164	153	145	124	114	99.0	77.0	65.6	60.0	50.5	43.7	38.6	34.7	31.5
KGL 350 P	186	175	162	155	133	122	106	82.0	69.5	63.6	53.5	46.3	40.9	36.7	33.4
KGL 375 P	197	186	173	165	141	130	112	87.0	74.5	68.2	57.4	49.7	43.9	39.4	35.8
KGL 390 P	206	194	181	171	147	136	117	91.0	77.5	70.9	59.7	51.7	45.6	41.0	37.2
KGL 420 P	221	208	194	184	157	145	125	97.0	83.5	76.4	64.3	55.7	49.2	44.1	40.1
KGL 440 P	227	213	198	189	162	149	128	102	87.4	80.0	67.3	58.3	51.5	46.2	42.0
KGL 500 P	337	306	277	248	205	192	180	135	107	90.0	76.0	66.0	58.0	52.0	47.0
KGL 555 P	374	340	308	276	228	213	200	150	119	100	84.0	73.0	64.0	58.0	52.0
KGL 585 P	394	358	324	290	239	224	210	158	125	105	88.0	77.0	68.0	61.0	55.0
KGL 610 P	412	374	339	303	251	235	220	165	131	110	93.0	81.0	71.0	64.0	57.0
KGL 645 P	434	394	357	320	264	247	232	174	138	116	97.0	84.0	75.0	67.0	61.0
KGL 665 P	449	408	369	331	273	256	240	180	143	120	101	87.0	77.0	69.0	63.0
KGL 705 P	475	431	390	349	289	270	254	190	151	127	107	92.0	82.0	73.0	66.0
KGL 750 P	506	459	416	372	308	288	270	203	161	135	114	98.0	87.0	78.0	71.0
KGL 795 P	535	486	440	394	325	305	286	214	170	143	120	104	92.0	82.0	75.0
KGL 835 P	562	510	462	413	342	320	300	225	178	150	126	109	97.0	87.0	79.0
KGL 890 P	599	544	492	441	364	341	320	240	190	160	134	117	103	92.0	84.0
KGL 990 P	667	605	548	491	405	380	356	267	212	178	150	130	115	103	93.0
KGL 1110 P	749	680	616	551	456	427	400	300	238	200	168	146	129	116	105
KGL 1260 P	848	771	697	625	516	483	453	340	269	227	190	165	146	131	119
KGL 1320 P	889	807	730	654	540	506	475	356	282	237	199	173	153	137	124
KGL 1390 P	936	850	769	689	569	533	500	375	297	250	210	182	161	144	131
KGL 1460 P	983	893	808	724	598	560	525	394	312	263	221	191	169	151	138
KGL 1570 P	1057	960	869	778	643	602	565	424	335	282	237	206	182	163	148

Final discharge voltage 1.10 Volts per cell @ 20 - 25C - Electrical Specification

Cell Type	Discharge Current (A) / Discharge time min				Discharge Current (A) / Discharge Time in Hours										
	5 min	10 min	20 min	30 min	1	1.50	2	3	4	5	6	7	8	9	10
KGL 12 P	8.80	7.80	6.90	6.60	5.50	4.53	3.93	3.02	2.56	2.33	1.95	1.68	1.47	1.32	1.19
KGL 20 P	14.3	12.7	11.3	10.7	9.00	7.40	6.40	4.90	4.19	3.82	3.20	2.75	2.42	2.16	1.95
KGL 25 P	19.1	17.0	15.0	14.3	12.0	9.90	8.60	6.60	5.28	4.81	4.02	3.46	3.04	2.71	2.45
KGL 35 P	23.9	21.2	18.8	17.9	15.0	12.4	10.7	8.20	6.98	6.36	5.32	4.58	4.02	3.59	3.24
KGL 45 P	29.1	26.4	24.6	23.2	19.9	16.4	14.4	11.0	9.30	8.48	7.09	6.11	5.36	4.79	4.32
KGL 50 P	38.2	34.7	32.3	30.5	24.5	20.9	18.1	13.8	10.9	9.50	7.95	6.84	6.01	5.36	4.858
KGL 60 P	47.0	43.0	40.0	38.0	29.0	25.4	21.8	16.6	13.1	11.3	9.45	8.14	7.15	6.38	5.76
KGL 70 P	53.0	50.0	47.0	44.0	34.9	28.9	25.3	18.7	15.3	13.6	11.38	9.79	8.60	7.68	6.94
KGL 80 P	62.0	58.0	54.0	51.0	41.0	33.4	29.2	21.5	17.3	15.4	12.8	11.0	9.74	8.69	7.85
KGL 100 P	74.0	70.0	66.0	61.0	48.0	40.0	35.0	25.8	21.0	18.8	15.7	13.5	11.8	10.6	9.59
KGL 120 P	90.0	86.0	80.0	75.0	60.0	49.0	42.9	31.6	25.9	23.1	19.3	16.6	14.6	13.0	11.7
KGL 135 P	96.0	89.0	86.0	80.0	64.0	55.0	47.8	36.2	29.2	25.8	21.6	18.6	16.3	14.6	13.2
KGL 155 P	107	99.0	96.0	89.0	75.0	62.0	53.5	40.6	33.5	29.6	24.8	21.3	18.7	16.7	15.1
KGL 175 P	123	113	110	103	86.0	71.0	61.2	46.4	37.8	33.4	27.9	24.0	21.1	18.9	17.0
KGL 205 P	143	131	126	118	99.0	82.0	70.0	53.7	44.3	39.2	32.8	28.2	24.8	22.1	20.0
KGL 225 P	158	145	140	131	110	91.0	78.0	59.5	48.6	43.0	36.0	31.0	27.2	24.3	21.9
KGL 245 P	166	153	147	139	116	99.0	86.0	63.9	52.4	46.8	39.2	33.7	29.6	26.4	23.9
KGL 275 P	185	170	164	153	128	111	96.0	71.0	58.7	52.6	44.0	37.9	33.3	29.7	26.8
KGL 300 P	200	184	177	166	139	119	103	76.7	64.2	57.4	48.0	41.3	36.3	32.4	29.3
KGL 330 P	234	215	208	190	160	143	117	85.8	70.6	63.0	52.7	45.4	39.8	35.6	32.1
KGL 350 P	249	229	222	203	170	152	125	92.0	75.1	66.8	55.9	48.1	42.3	37.7	34.1
KGL 375 P	265	243	236	216	181	162	133	97.0	80.2	71.6	59.9	51.6	45.3	40.4	36.5
KGL 390 P	277	254	246	226	189	170	138	102	83.4	74.5	62.3	53.6	47.1	42.1	38.0
KGL 420 P	296	272	263	241	202	181	149	109	89.8	80.2	67.1	57.7	50.7	45.3	40.9
KGL 440 P	304	279	270	248	207	186	152	114	94.1	84.0	70.3	60.5	53.1	47.4	42.8
KGL 500 P	443	400	369	337	272	238	203	149	115	94.5	79.1	68	59.8	53.3	48.2
KGL 555 P	492	444	410	374	302	264	226	166	128	105	87.9	75.6	66.4	59.2	53.6
KGL 585 P	518	468	431	394	318	278	237	174	134	111	92.6	79.7	70.0	62.5	56.4
KGL 610 P	541	489	451	412	332	291	248	182	141	116	96.7	83.1	73.1	65.1	58.9
KGL 645 P	571	516	476	434	351	307	262	192	148	122	102	87.9	77.2	68.9	62.2
KGL 665 P	591	533	492	449	363	317	271	199	153	126	105	90.7	79.7	71.1	64.3
KGL 705 P	624	563	520	475	383	335	286	210	161	133	111	96.1	84.3	75.3	68.0
KGL 750 P	665	600	554	506	408	357	305	224	173	142	118	102	89.8	80.2	72.4
KGL 795 P	704	635	586	535	432	378	323	237	182	150	125	108	95.1	84.9	76.7
KGL 835 P	738	667	615	562	453	397	338	248	192	158	132	113	99.9	89.2	80.6
KGL 890 P	788	711	656	599	484	423	361	265	204	168	140	121	106	95.0	85.9
KGL 990 P	877	791	730	667	538	471	402	295	226	187	156	134	118	105	95.5
KGL 1110 P	984	889	820	749	604	529	451	331	255	210	175	151	132	118	107
KGL 1260 P	1116	1007	929	848	685	599	511	375	288	238	199	171	150	134	121
KGL 1320 P	1169	1055	973	889	718	628	536	393	302	250	208	179	157	140	127
KGL 1390 P	1231	1111	1025	936	756	661	564	414	318	263	220	189	166	148	134
KGL 1460 P	1293	1167	1077	983	794	694	592	435	334	276	231	198	174	155	140
KGL 1570 P	1390	1255	1158	1057	854	747	637	468	359	297	248	213	187	167	151



Final discharge voltage 1.05 Volts per cell @ 20 - 25C - Electrical Specification

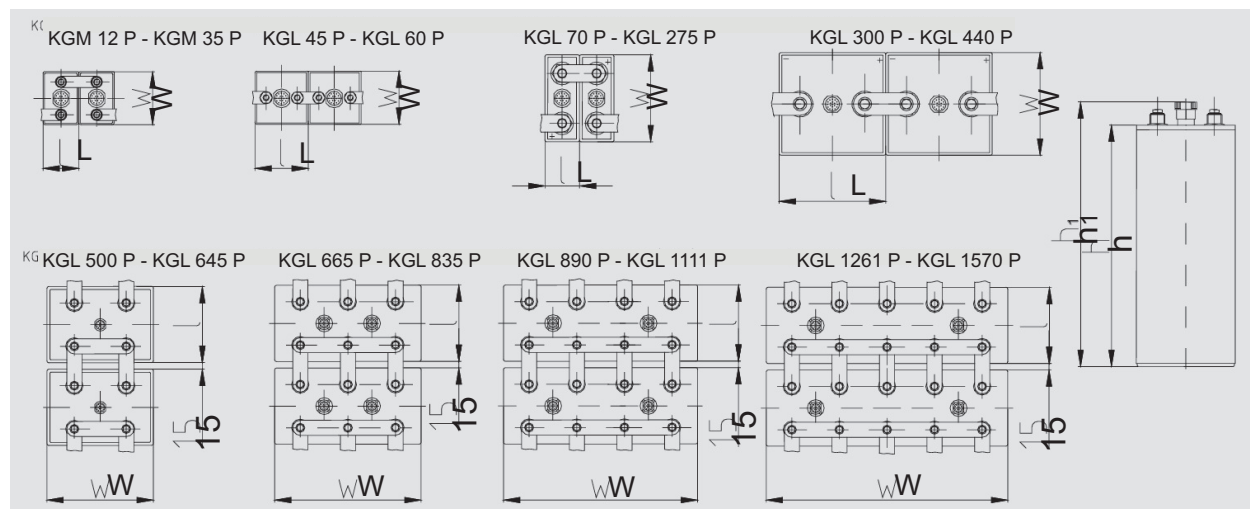
Cell Type	Discharge Current (A) / Discharge time min.				Discharge Current (A) / Discharge time Hours										
	5 min	10 min	20 min	30 min	1	1.50	2	3	4	5	6	7	8	9	10
KGL 12 P	11.0	10.3	9.00	8.10	6.40	5.33	4.42	3.22	2.67	2.38	1.99	1.71	1.50	1.33	1.20
KGL 20 P	18.1	16.8	14.6	13.2	10.5	8.70	7.20	5.27	4.33	3.89	3.25	2.79	2.45	2.18	1.96
KGL 25 P	24.2	22.3	19.5	17.6	13.9	11.6	9.70	7.03	5.50	4.90	4.09	3.51	3.08	2.74	2.47
KGL 35 P	30.2	27.9	24.4	22.1	17.4	14.5	12.1	8.80	7.27	6.48	5.41	4.65	4.07	3.63	3.27
KGL 45 P	36.9	33.0	29.5	27.7	23.3	19.5	16.0	11.7	9.70	8.64	7.21	6.20	5.43	4.84	4.36
KGL 50 P	48.5	43.3	38.8	36.4	28.2	23.5	19.7	14.5	11.2	9.90	8.27	7.10	6.22	5.54	5.00
KGL 60 P	60.0	54.0	48.0	45.0	33.0	28.4	23.4	17.4	13.7	11.9	9.94	8.53	7.48	6.66	6.01
KGL 70 P	64.0	60.0	56.0	52.0	40.0	33.2	26.9	19.4	15.7	13.9	11.6	9.97	8.74	7.78	7.02
KGL 80 P	74.0	69.0	64.0	61.0	47.0	38.3	31.1	22.4	17.8	15.7	13.1	11.2	9.87	8.79	7.93
KGL 100 P	89.0	83.0	78.0	72.0	55.0	46.0	37.3	26.9	21.7	19.2	16.0	13.7	12.0	10.7	9.70
KGL 120 P	108	101	94.0	89.0	68.0	56.0	45.6	32.8	26.7	23.6	19.7	16.9	14.8	13.2	11.9
KGL 135 P	116	106	102	95.0	76.0	64.0	52.0	37.7	30.1	26.4	22.0	18.9	16.6	14.7	13.3
KGL 155 P	136	125	120	112	89.0	72.0	58.3	42.3	34.5	30.3	25.3	21.7	19.0	16.9	15.3
KGL 175 P	155	143	138	128	102	82.0	66.6	48.3	39	34.2	28.5	24.5	21.5	19.1	17.2
KGL 205 P	179	166	159	148	118	95.0	77.0	55.8	45.8	40.1	33.5	28.8	25.2	22.5	20.3
KGL 225 P	199	184	176	164	131	106	85.0	61.9	50.1	44.0	36.7	31.6	27.7	24.6	22.2
KGL 245 P	209	194	186	173	138	116	93.0	67.9	54.6	47.9	40.0	34.4	30.1	26.8	24.2
KGL 275 P	233	215	206	192	153	129	104	75.4	61.2	53.8	44.9	38.6	33.8	30.1	27.2
KGL 300 P	251	232	222	207	166	139	113	81.0	66.9	58.7	49.0	42.1	36.9	32.9	29.6
KGL 330 P	283	265	252	233	190	160	124	88.0	72.0	64.5	53.9	46.3	40.6	36.1	32.6
KGL 350 P	302	282	269	248	202	170	132	93.0	76.8	68.4	57.1	49.1	43.0	38.3	34.5
KGL 375 P	320	300	286	264	215	181	141	100	81.8	73.3	61.2	52.6	46.1	41.0	37.0
KGL 390 P	335	314	298	276	224	189	147	104	85.0	76.2	63.6	54.6	47.9	42.7	38.5
KGL 420 P	358	335	319	295	241	202	157	112	91.6	82.1	68.6	58.9	51.6	46.0	41.5
KGL 440 P	368	344	328	303	247	208	161	117	96.9	86.0	71.8	61.7	54.1	48.2	43.4
KGL 500 P	558	506	464	421	320	269	218	156	120	99.0	82.7	71.0	62.2	55.4	50.0
KGL 555 P	620	562	516	468	356	299	242	173	133	110	91.9	78.9	69.14	61.6	55.6
KGL 585 P	652	592	542	492	374	314	255	182	141	116	96.6	83.0	72.8	64.8	58.5
KGL 610 P	682	618	567	515	391	329	266	191	146	121	101	86.8	76.0	67.7	61.1
KGL 645 P	719	652	598	542	413	347	281	201	155	128	106	91.5	80.2	71.5	64.5
KGL 665 P	744	675	619	561	427	359	291	208	161	132	110	94.7	83.0	73.9	66.7
KGL 705 P	786	713	654	593	451	379	307	220	170	139	116	100	87.7	78.1	70.4
KGL 750 P	837	759	696	632	480	404	327	234	181	149	124	106	93.7	83.4	75.2
KGL 795 P	887	804	737	669	508	427	347	248	192	157	131	112	98.9	88.1	79.4
KGL 835 P	930	843	773	702	533	448	363	260	201	165	137	118	103	92.4	83.3
KGL 890 P	992	900	825	748	569	478	388	277	214	176	147	126	110	98.6	88.9
KGL 990 P	1104	1001	918	833	633	532	432	308	239	196	163	140	123	109	98.9
KGL 1110 P	1240	1124	1031	936	711	598	484	347	268	220	183	157	138	123	111
KGL 1260 P	1405	1275	1168	1060	806	677	549	393	304	249	208	178	156	139	125
KGL 1320 P	1472	1335	1224	1110	844	709	575	411	318	261	218	187	164	146	131
KGL 1390 P	1550	1406	1289	1169	889	747	606	433	335	275	229	197	172	154	138
KGL 1460 P	1628	1477	1354	1228	934	785	637	455	352	289	241	207	181	161	145
KGL 1570 P	1751	1588	1456	1320	1004	844	684	489	378	311	259	222	195	173	156

Final discharge voltage 1.00 Volts per cell @ 20 - 25C - Electrical Specification

Cell Type	Discharge Current (A) / Discharge time min.				Discharge Current (A) / Discharge time Hours										
	5 min	10 min	20 min	30 min	1	1.50	2	3	4	5	6	7	8	9	10
KGL 12 P	12.7	12.2	10.8	9.70	7.30	5.80	4.68	3.39	2.73	2.40	2.00	1.72	1.51	1.34	1.21
KGL 20 P	20.8	19.9	17.7	16.2	12.3	9.50	7.70	5.54	4.56	4.00	3.34	2.87	2.52	2.24	2.02
KGL 25 P	27.8	26.5	23.6	21.6	16.5	12.6	10.2	7.39	5.69	5.00	4.18	3.59	3.14	2.80	2.53
KGL 35 P	34.7	33.2	29.5	27.1	20.7	15.8	12.8	9.24	7.97	7.00	5.85	5.02	4.40	3.92	3.54
KGL 45 P	41.6	38.6	34.0	36.1	27.5	21.1	17.1	12.3	10.2	9.00	7.52	6.45	5.66	5.04	4.55
KGL 50 P	54.5	50.7	43.8	42.9	32.1	26.2	20.9	14.9	11.5	10.0	8.35	7.17	6.29	5.6	5.05
KGL 60 P	68.0	63.0	54.0	49.6	37.8	31.3	24.6	17.6	13.8	12.0	10.0	8.61	7.55	6.72	6.06
KGL 70 P	74.0	70.0	64.0	61.0	46.0	35.2	28.2	20.0	16.0	14.0	11.6	10.0	8.8	7.84	7.07
KGL 80 P	85.0	80.0	74.0	70.0	53.0	40.6	32.5	23.1	18.2	16.0	13.3	11.4	10.0	8.96	8.08
KGL 100 P	101	96.0	89.0	84.0	63.0	48.7	39.0	27.7	22.7	20.0	16.7	14.3	12.5	11.2	10.1
KGL 120 P	124	118	109	103	77.0	59.5	47.6	33.9	27.3	24.0	20.0	17.2	15.0	13.4	12.1
KGL 135 P	137	129	121	114	86.0	68.0	53.7	38.5	30.8	27.0	22.5	19.3	16.9	15.1	13.6
KGL 155 P	161	151	142	134	102	77.0	60.1	43.1	35.3	31.0	25.8	22.2	19.4	17.3	15.6
KGL 175 P	185	173	162	153	116	87.0	69.0	49.3	39.9	35.0	29.2	25.1	22.0	19.6	17.6
KGL 205 P	213	200	188	178	134	101	79.0	57.0	46.7	41.0	34.2	29.4	25.8	23.0	20.7
KGL 225 P	236	222	208	197	149	112	88.0	63.1	51.3	45.0	37.6	32.3	28.3	25.2	22.7
KGL 245 P	249	234	219	207	158	124	97.0	69.3	55.8	49.0	40.9	35.1	30.8	27.4	24.7
KGL 275 P	277	260	243	230	174	138	107	77.0	62.3	55.0	45.9	39.4	34.6	30.8	27.8
KGL 300 P	299	281	263	248	190	148	116	83.2	68.3	60.0	50.1	43.0	37.7	33.6	30.3
KGL 330 P	345	317	296	275	213	162	127	89.9	74.1	66.0	55.1	47.3	41.5	37.0	33.3
KGL 350 P	368	339	316	294	227	172	135	96.0	78.8	70.0	58.5	50.2	44.0	39.2	35.4
KGL 375 P	391	360	335	312	241	183	143	102	84.2	75.0	62.6	53.8	47.2	42.0	37.9
KGL 390 P	408	376	350	326	252	191	150	106	87.6	78.0	65.1	55.9	49.0	43.7	39.4
KGL 420 P	437	402	375	349	269	205	160	113	94.3	84.0	70.1	60.2	52.8	47.0	42.4
KGL 440 P	449	413	385	358	276	210	165	120	98.8	88.0	73.5	63.1	55.3	49.3	44.4
KGL 500 P	664	612	547	495	365	297	229	158	122	100	83.4	71.6	62.8	55.9	50.4
KGL 555 P	738	680	608	550	406	330	254	176	136	111	92.7	79.6	69.8	62.1	56.0
KGL 585 P	776	715	639	579	427	347	268	185	142	117	97.7	83.9	73.6	65.5	59.1
KGL 610 P	812	748	669	605	446	363	280	193	149	122	101	87.5	76.8	68.3	61.6
KGL 645 P	856	789	705	638	471	383	295	204	156	129	107	92.5	81.1	72.2	65.1
KGL 665 P	885	816	729	660	487	396	305	211	162	133	111	95.4	83.6	74.5	67.2
KGL 705 P	935	862	770	697	514	418	323	223	171	141	117	101	88.7	79.0	71.2
KGL 750 P	996	918	821	743	548	446	344	237	183	150	125	107	94.3	84.0	75.8
KGL 795 P	1055	972	869	786	580	472	364	251	193	159	132	114	100	89.1	80.3
KGL 835 P	1107	1020	912	825	608	495	382	263	203	167	139	119	105	93.5	84.3
KGL 890 P	1181	1088	973	880	649	528	407	281	216	178	148	127	111	99.7	89.9
KGL 990 P	1313	1211	1082	979	722	588	453	313	240	198	165	142	124	110	100
KGL 1110 P	1476	1360	1216	1100	811	660	509	351	270	222	185	159	139	124	112
KGL 1260 P	1672	1541	1377	1246	919	748	577	398	305	252	210	180	158	141	127
KGL 1320 P	1751	1614	1443	1306	963	783	604	417	320	264	220	189	166	147	133
KGL 1390 P	1844	1700	1519	1375	1014	825	636	439	337	278	232	199	174	155	140
KGL 1460 P	1937	1786	1595	1444	1065	867	668	461	354	292	243	209	183	163	147
KGL 1570 P	2083	1920	1716	1553	1145	932	718	496	381	314	262	225	197	175	158

Cell Type KGM---P in Plastic Case single cell - Medium Discharge Rate - Specification

Cell Type	Nom. Capacity C5 (Ah.) 1.00V Final Discharge Voltage / cell	Dimension Single Cell (mm)			Terminal Bolt Diameter	Number of Terminal Bolts	Cell Weight Kg.
		L	W	Ht			
KGM 11 P	11	46	85	167	M10	2	1.0
KGM 18 P	18	46	85	237	M10	2	1.5
KGM 24 P	24	46	85	237	M10	2	1.6
KGM 30 P	30	46	85	237	M10	2	1.7
KGM 40 P	40	85	85	237	M10	2	2.8
KGM 48 P	48	85	85	237	M10	2	2.8
KGM 55 P	55	85	85	237	M10	2	3.0
KGM 65 P	65	53	134	364	M8	2	4.9
KGM 75 P	75	53	134	364	M8	2	5.0
KGM 90 P	90	69	134	364	M8	2	6.2
KGM 110 P	110	69	134	364	M8	2	6.5
KGM 125 P	125	70	164	364	M8	2	7.7
KGM 140 P	140	70	164	364	M8	2	7.8
KGM 160 P	160	108	164	364	M8	2	10.6
KGM 185 P	185	108	164	364	M8	2	10.9
KGM 205 P	205	108	164	364	M8	2	11.2
KGM 225 P	225	108	164	364	M8	2	11.6
KGM 250 P	250	108	164	364	M8	2	12.2
KGM 270 P	270	164	158	364	M10	2	16.3
KGM 300 P	300	164	158	364	M10	2	16.5
KGM 320 P	320	164	158	364	M10	2	17.0
KGM 340 P	340	164	158	364	M10	2	17.5
KGM 355 P	355	164	158	364	M10	2	18.0
KGM 380 P	380	164	158	364	M10	2	18.5
KGM 400 P	400	164	158	364	M10	2	18.9
KGM 450 P	450	176	246	382	M10	4	27.3
KGM 470 P	470	176	246	382	M10	4	27.8
KGM 500 P	500	176	246	382	M10	4	28.3
KGM 520 P	520	176	246	382	M10	4	28.9
KGM 550 P	550	176	246	382	M10	4	29.3
KGM 570 P	570	176	246	382	M10	4	29.7
KGM 600 P	600	176	368	382	M10	6	40.7
KGM 630 P	630	176	368	382	M10	6	41.2
KGM 675 P	675	176	368	382	M10	6	41.9
KGM 690 P	690	176	368	382	M10	6	42.3
KGM 750 P	750	176	368	382	M10	6	43.1
KGM 770 P	770	176	368	382	M10	6	45.4
KGM 800 P	800	176	448	382	M10	8	49.1
KGM 850 P	850	176	448	382	M10	8	51.4
KGM 950 P	950	176	448	382	M10	8	53.7
KGM 1000 P	1000	176	448	382	M10	8	56.0
KGM 1030 P	1030	176	448	382	M10	8	58.9
KGM 1130 P	1130	176	448	382	M10	8	61.9
KGM 1250 P	1250	176	558	382	M10	10	68.9
KGM 1350 P	1350	176	558	382	M10	10	68.9



Final discharge voltage 1.15 Volts per cell @ 20 - 25C - Electrical Specification

Cell Type	Discharge Current (A) / Discharge time min.				Discharge Current (A) / Discharge time hours									
	5 min	10 min	20 min	30 min	1	1.50	2	3	5	6	7	8	9	10
KGM 11 P	7.70	7.10	6.40	6.00	4.90	4.17	3.61	2.80	2.20	1.85	1.60	1.42	1.27	1.16
KGM 18 P	12.6	11.7	10.4	9.80	8.10	6.80	5.95	4.59	3.60	3.03	2.62	2.32	2.08	1.89
KGM 24 P	16.8	15.6	13.9	13.1	10.7	9.14	7.90	6.12	4.80	4.04	3.50	3.09	2.77	2.52
KGM 30 P	21.0	19.5	17.4	16.4	13.4	11.4	9.80	7.60	6.00	5.05	4.37	3.86	3.47	3.15
KGM 40 P	29.6	26.1	23.2	21.8	17.8	15.2	13.1	10.2	8.00	6.73	5.83	5.15	4.62	4.20
KGM 48 P	38.8	34.2	30.4	28.7	22.8	19.9	17.3	13.2	9.60	8.08	6.99	6.18	5.55	5.04
KGM 55 P	48.0	42.3	37.6	35.4	27.7	24.6	21.5	16.2	11.0	9.26	8.01	7.08	6.36	5.78
KGM 65 P	49.0	46.2	42.5	39.7	31.0	26.3	23.3	17.4	13.0	10.9	9.50	8.40	7.50	6.80
KGM 75 P	56.6	53.9	48.3	45.5	35.9	30.4	26.8	20.1	15.0	12.6	10.9	9.70	8.70	7.90
KGM 90 P	68.2	64.5	58.9	54.2	42.7	36.5	32.3	24.1	18.0	15.2	13.1	11.6	10.4	9.50
KGM 110 P	83.5	78.9	71.4	66.8	52.4	44.6	39.4	29.5	22.0	18.5	16.0	14.2	12.7	11.6
KGM 125 P	94.1	84.7	78.2	75.5	57.2	49.6	43.4	34.7	25.0	21.0	18.2	16.1	14.4	13.1
KGM 140 P	104.6	95.2	85.9	78.4	64.0	55.4	48.7	38.8	28.0	23.6	20.4	18.0	16.2	14.7
KGM 160 P	120	108	97.5	89.1	73.7	63.2	55.6	44.4	32.0	26.9	23.3	20.6	18.5	16.8
KGM 185 P	138	126	112	102	85.4	72.9	64.4	51.3	37.0	31.1	27.0	23.8	21.4	19.4
KGM 205 P	153	139	125	114	94.1	80.7	71.2	56.8	41.0	34.5	29.9	26.4	23.7	21.5
KGM 225 P	162	147	132	120	98.9	88.5	78.0	58.8	45.0	37.9	32.8	29.0	26.0	23.6
KGM 250 P	179	163	146	133	110	98.2	86.8	65.4	50.0	42.1	36.4	32.2	28.9	26.3
KGM 270 P	193	176	158	144	119	105	93.6	70.6	54.0	45.5	39.3	34.8	31.2	28.4
KGM 300 P	222	206	184	171	141	128	109	82.3	60.0	50.5	43.7	38.6	34.7	31.5
KGM 320 P	238	220	195	183	151	137	117	87.8	64.0	53.9	46.6	41.2	37.0	33.6
KGM 340 P	252	233	208	194	161	145	123	93.3	68.0	57.2	49.5	43.8	39.3	35.7
KGM 355 P	264	244	218	202	167	152	129	97.0	71.0	59.8	51.7	45.7	41.0	37.3
KGM 380 P	282	261	233	216	179	163	138	103	76.0	64.0	55.4	48.9	43.9	39.9
KGM 400 P	289	268	239	222	184	167	142	109	80.0	67.3	58.3	51.5	46.2	42.0
KGM 450 P	324	294	267	240	199	187	176	132	90.0	76.0	66.0	58.0	52.0	47.0
KGM 470 P	338	308	279	251	208	195	183	138	94.0	79.0	68.0	61.0	54.0	49.0
KGM 500 P	359	327	297	267	221	207	195	147	100	84.0	73.0	64.0	58.0	52.0
KGM 520 P	374	340	309	277	230	215	203	153	104	87.0	76.0	67.0	60.0	54.0
KGM 550 P	396	360	327	293	243	228	215	162	110	93.0	81.0	71.0	64.0	57.0
KGM 570 P	410	373	338	304	252	236	223	168	114	96.0	83.0	73.0	66.0	60.0
KGM 600 P	431	392	356	320	265	249	234	176	120	101	87.0	77.0	69.0	63.0
KGM 630 P	453	412	374	336	278	261	246	185	126	106	92.0	81.0	73.0	66.0
KGM 675 P	486	442	401	360	299	280	263	199	135	114	98.0	87.0	78.0	71.0
KGM 690 P	496	452	410	368	305	286	269	203	138	116	100	89.0	79.0	72.0
KGM 750 P	540	491	446	400	332	311	293	221	150	126	109	97.0	87.0	79.0
KGM 770 P	554	504	457	411	340	319	301	227	154	129	112	99.0	89.0	81.0
KGM 800 P	575	524	475	427	353	332	312	236	160	134	116	103	92.0	84.0
KGM 850 P	611	556	505	454	375	352	332	250	170	143	124	109	98.0	89.0
KGM 950 P	683	622	564	507	420	394	371	280	190	160	138	122	109	100
KGM 1000 P	719	654	594	533	442	415	390	294	200	168	146	129	116	105
KGM 1030 P	741	674	611	550	455	427	402	303	206	173	150	133	119	108
KGM 1130 P	813	739	671	603	499	468	441	333	226	190	165	146	130	118
KGM 1250 P	899	818	742	667	552	518	488	368	250	210	182	161	144	131
KGM 1350 P	971	883	801	720	596	559	527	397	270	227	197	174	156	141

Final discharge voltage 1.10 Volts per cell @ 20 - 25C

Type Of Cell	Discharge Current (A) / Discharge time min.				Discharge Current (A) / Discharge time hours									
	5 min	10 min	20 min	30 min	1	1.50	2	3	5	6	7	8	9	10
KGM 11 P	11.2	9.80	8.30	7.70	6.30	5.09	4.36	3.23	2.33	1.95	1.68	1.47	1.32	1.19
KGM 18 P	18.3	16.0	13.6	12.7	10.3	8.36	7.12	5.29	3.82	3.20	2.75	2.42	2.16	1.95
KGM 24 P	24.4	21.4	18.1	16.8	13.7	11.08	9.56	7.06	5.09	4.26	3.66	3.22	2.87	2.60
KGM 30 P	30.5	26.6	22.7	21.1	17.1	13.9	11.9	8.80	6.36	5.32	4.58	4.02	3.59	3.24
KGM 40 P	37.2	33.2	29.7	27.4	22.7	18.5	16.0	11.8	8.48	7.09	6.11	5.36	4.79	4.32
KGM 48 P	48.9	43.6	39.0	36.0	27.9	23.5	20.1	14.8	10.0	8.37	7.20	6.33	5.64	5.10
KGM 55 P	60.5	53.9	48.3	44.5	33.1	28.6	24.2	17.7	11.5	9.62	8.28	7.27	6.49	5.87
KGM 65 P	68.2	63.5	56.9	52.3	39.8	32.5	28.1	20.0	13.8	11.5	9.94	8.73	7.79	7.04
KGM 75 P	78.7	73.1	65.6	60.0	46.6	37.5	32.4	23.0	15.9	13.3	11.4	10.0	8.97	8.11
KGM 90 P	94.1	88.5	79.1	71.6	55.3	45.0	38.8	27.6	19.1	15.9	13.7	12.0	10.7	9.74
KGM 110 P	115	107	96.5	88.1	67.9	55.0	47.5	33.8	23.3	19.4	16.7	14.7	13.1	11.8
KGM 125 P	122	111	101.3	94.9	72.8	62.2	52.9	38.8	26.3	22.0	18.9	16.6	14.8	13.4
KGM 140 P	137	125	115	105	85.4	70.0	59.3	43.5	29.4	24.6	21.2	18.6	16.6	15.0
KGM 160 P	157	142	132	121	98.0	79.7	67.8	49.7	33.6	28.1	24.2	21.3	19.0	17.1
KGM 185 P	182	164	152	139	112	92.3	78.0	57.5	38.9	32.5	28.0	24.6	22.0	19.8
KGM 205 P	201	182	168	154	125	102	86.8	63.7	43.1	36.1	31.0	27.3	24.3	22.0
KGM 225 P	212	192	177	163	131	111	95.6	68.4	47.3	39.6	34.1	29.9	26.7	24.1
KGM 250 P	236	213	197	181	146	124	106	76.0	52.6	44.0	37.9	33.3	29.7	26.8
KGM 270 P	255	230	213	195	158	134	114	82.1	56.8	47.5	40.9	35.9	32.1	29.0
KGM 300 P	299	270	250	224	182	160	129	91.9	63.0	52.7	45.4	39.8	35.6	32.1
KGM 320 P	318	287	267	240	194	171	138	98.0	67.2	56.2	48.4	42.5	37.9	34.3
KGM 340 P	338	305	284	254	206	181	147	103	71.4	59.7	51.4	45.2	40.3	36.4
KGM 355 P	354	319	297	266	215	190	153	108	74.6	62.4	53.7	47.2	42.1	38.0
KGM 380 P	379	342	317	284	230	203	164	116	79.8	66.8	57.5	50.5	45.0	40.7
KGM 400 P	388	351	326	292	236	209	168	122	84.0	70.3	60.5	53.1	47.4	42.8
KGM 450 P	425	385	356	326	264	231	149.8	146	94.5	79.1	68.0	59.8	53.3	48.2
KGM 470 P	444	402	372	341	276	241	207	153	98.9	82.7	71.2	62.5	55.8	50.4
KGM 500 P	472	427	396	362	293	257	220	163	105	87.9	75.6	66.4	59.2	53.6
KGM 520 P	492	445	411	377	305	267	229	169	109	91.5	78.8	69.2	61.7	55.8
KGM 550 P	519	470	435	399	322	283	242	178	116	96.7	83.1	73.1	65.1	58.9
KGM 570 P	539	487	451	413	334	293	251	185	119	100	86.4	75.8	67.7	61.1
KGM 600 P	567	513	475	435	352	308	264	195	126	105	90.7	79.7	71.1	64.3
KGM 630 P	596	539	498	457	369	324	277	205	132	110	95.5	83.8	74.8	67.6
KGM 675 P	638	577	535	490	396	347	297	220	142	118	102	89.8	80.2	72.4
KGM 690 P	652	590	546	500	405	354	304	224	145	121	104	91.8	81.9	74.0
KGM 750 P	708	642	593	544	439	386	330	243	158	132	113	99.39	89.2	80.6
KGM 770 P	728	659	609	558	452	395	339	250	162	135	116	102	91.4	82.6
KGM 800 P	756	684	633	580	469	411	352	260	168	140	121	106	95.0	85.8
KGM 850 P	804	727	673	616	498	437	374	276	178	149	128	113	100	91.2
KGM 950 P	898	812	752	689	557	488	418	309	199	167	143	126	112	101
KGM 1000 P	945	855	791	725	586	514	440	324	210	175	151	132	118	107
KGM 1030 P	974	881	815	747	604	529	453	335	216	181	156	137	122	110
KGM 1130 P	1069	966	894	819	663	580	497	367	237	198	171	150	134	121
KGM 1250 P	1182	1069	989	906	733	642	550	406	263	220	189	166	148	134
KGM 1350 P	1277	1155	1068	978	792	693	594	438	284	237	204	179	160	144

Final discharge voltage 1.05 Volts per cell @ 20 - 25C - Electrical Specification

Cell Type	Discharge Current (A) / Discharge time min				Discharge Current (A) / Discharge time (hours)									
	5 min	10 min	20 min	30 min	1	1.50	2	3	5	6	7	8	9	10
KGM 11 P	14.1	12.9	10.8	9.60	7.30	5.99	4.89	3.45	2.38	1.99	1.71	1.50	1.33	1.20
KGM 18 P	23.1	21.1	17.7	15.6	11.9	9.82	8.00	5.64	3.89	3.25	2.79	2.45	2.18	1.96
KGM 24 P	30.9	28.14	23.5	20.8	15.9	13.02	10.73	7.53	5.18	4.33	3.71	3.26	2.90	2.62
KGM 30 P	38.6	35.1	29.4	26.0	19.9	16.3	13.4	9.40	6.48	5.41	4.65	4.07	3.63	3.27
KGM 40 P	47.2	41.5	35.6	32.7	26.6	21.9	17.7	12.5	8.64	7.21	6.20	5.43	4.84	4.36
KGM 48 P	62.0	54.4	46.8	43.0	32.2	26.4	21.8	15.6	10.4	8.68	7.46	6.54	5.82	5.25
KGM 55 P	76.8	67.3	57.9	53.2	37.8	31.9	25.9	18.6	12.1	10.1	8.68	7.61	6.78	6.11
KGM 65 P	81.6	75.0	67.6	62.0	45.6	37.3	29.8	20.8	14.1	11.7	10.1	8.87	7.90	7.12
KGM 75 P	94.1	86.6	77.2	71.6	53.4	43.1	34.4	24.0	16.2	13.5	11.6	10.1	9.07	8.18
KGM 90 P	113	103	93.6	85.2	63.1	51.7	41.3	28.8	19.5	16.2	13.9	12.2	10.9	9.85
KGM 110 P	138	127	113	104	77.6	63.2	50.5	35.2	23.8	19.8	17.0	14.9	13.3	12.0
KGM 125 P	147	133	122	112	86.3	71.9	57.6	40.4	26.9	22.4	19.2	16.9	15.0	13.5
KGM 140 P	173	157	144	132	101	801.7	64.5	45.3	30.1	25.1	21.5	18.9	16.8	15.2
KGM 160 P	198	179	166	151	116	92.3	73.8	51.7	34.4	28.7	24.6	21.6	19.2	17.3
KGM 185 P	229	208	192	174	134	106	85.8	59.8	39.8	33.2	28.5	25.0	22.3	20.1
KGM 205 P	254	230	212	193	149	118	94.6	66.2	44.1	36.8	31.6	27.7	24.7	22.3
KGM 225 P	267	243	223	204	157	130	103	72.7	48.4	40.4	34.7	30.47	27.1	24.4
KGM 250 P	297	270	249	226	174	144	115	80.8	53.8	44.9	38.6	33.8	30.1	27.2
KGM 270 P	321	291	268	244	189	156	124	87.2	58.1	48.5	41.7	36.5	32.5	29.3
KGM 300 P	361	332	304	274	216	179	137	94.1	64.5	53.9	46.3	40.6	36.1	32.6
KGM 320 P	385	355	324	293	230	191	146	100	68.8	57.4	49.3	43.3	38.5	34.7
KGM 340 P	409	377	344	311	245	203	156	106	73.1	61.0	52.4	46.0	40.9	36.9
KGM 355 P	428	394	359	325	256	211	162	111	76.3	63.7	54.7	48.0	42.7	38.5
KGM 380 P	457	421	385	348	274	227	173	119	81.7	68.2	58.6	51.4	45.8	41.3
KGM 400 P	470	432	395	357	281	233	178	125	86.0	71.8	61.7	54.1	48.2	43.4
KGM 450 P	536	487	448	408	310	261	213	153	99.0	82.7	71.0	62.2	55.4	50.0
KGM 470 P	559	509	468	426	324	273	222	159	103	86.3	74.1	65.0	57.9	52.2
KGM 500 P	595	541	498	453	345	291	236	170	110	91.9	78.9	69.1	61.6	55.6
KGM 520 P	619	563	518	471	359	302	246	176	114	95.5	82.0	71.9	64.1	57.8
KGM 550 P	655	595	547	499	379	320	259	187	121	101	86.8	76.0	67.7	61.1
KGM 570 P	679	617	567	516	393	331	269	193	125	104	89.9	78.8	70.2	63.3
KGM 600 P	714	649	597	543	414	349	284	204	132	110	94.7	83.0	73.9	66.7
KGM 630 P	750	682	627	571	434	366	298	214	138	115	99.4	87.1	77.6	70.0
KGM 675 P	804	730	672	612	466	393	319	229	149	124	106	93.7	83.4	75.2
KGM 690 P	821	747	687	625	476	401	326	234	151	126	108	95.4	85.0	76.7
KGM 750 P	893	811	746	680	517	435	354	255	165	137	118	103	92.4	83.3
KGM 770 P	917	833	766	697	531	447	364	261	169	141	121	106	94.9	85.6
KGM 800 P	952	866	796	724	552	465	378	271	176	146	126	110	98.6	88.9
KGM 850 P	1012	920	846	770	586	494	402	288	187	156	134	117	104	94.5
KGM 950 P	1131	1028	945	860	655	552	449	322	209	174	149	131	117	105
KGM 1000 P	1190	1081	995	906	690	581	472	340	220	183	157	138	123	111
KGM 1030 P	1226	1115	1025	933	710	598	487	349	226	189	162	142	126	114
KGM 1130 P	1345	1223	1125	1023	779	656	534	383	248	207	178	156	139	125
KGM 1250 P	1488	1353	1244	1132	862	726	591	424	275	229	197	172	154	138
KGM 1350 P	1607	1461	1344	1223	931	784	638	458	297	248	213	186	166	150

Final discharge voltage 1.00 Volts per cell @ 20 - 25C - Electrical Specification

Cell Type	Discharge Current (A) / Discharge time min				Discharge Current (A) / Discharge time (hours)									
	5 min	10 min	20 min	30 min	1	1.50	2	3	5	6	7	8	9	10
KGM 11 P	16.2	15.3	13.0	11.4	8.30	6.52	5.19	3.63	2.42	2.02	1.74	1.52	1.36	1.22
KGM 18 P	26.6	25.0	21.3	19.2	14.1	10.6	8.48	5.94	3.96	3.31	2.84	2.49	2.22	2.00
KGM 24 P	35.5	33.4	28.5	25.6	18.8	14.1	11.3	7.92	5.28	4.41	3.79	3.362	2.96	2.67
KGM 30 P	44.4	41.8	35.6	31.9	23.6	17.8	14.1	9.90	6.60	5.51	4.73	4.15	3.70	3.33
KGM 40 P	53.2	48.6	41.0	42.6	31.4	23.7	18.9	13.2	8.80	7.35	6.31	5.53	4.93	4.44
KGM 48 P	69.8	63.8	52.9	50.6	36.7	29.5	23.1	16.0	10.5	8.77	7.53	6.60	5.88	5.30
KGM 55 P	86.4	78.9	64.7	58.6	43.2	35.2	27.2	18.8	12.2	10.1	8.75	7.67	6.83	6.16
KGM 65 P	94.1	87.5	77.2	71.6	52.4	39.6	31.2	21.5	14.3	11.9	10.2	8.99	8.01	7.22
KGM 75 P	108	101	89.7	82.3	60.1	45.6	36.0	24.7	16.5	13.7	11.8	10.3	9.24	8.33
KGM 90 P	129	121	107	98.7	71.8	54.7	43.2	29.7	19.8	16.5	14.2	12.4	11.0	10.0
KGM 110 P	158	1478	131	121	88.3	66.9	52.7	36.3	24.2	20.2	17.3	15.2	13.5	12.2
KGM 125 P	174	161	145	134	98.0	76.8	59.5	41.3	27.5	22.9	19.7	17.2	15.4	13.8
KGM 140 P	206	190	171	158	116	86.5	66.6	46.2	30.8	25.7	22.0	19.3	17.2	15.5
KGM 160 P	236	217	195	181	132	98.2	76.1	52.8	35.2	29.3	25.2	22.1	19.7	17.7
KGM 185 P	272	252	226	210	153	113	87.8	61.1	40.7	34.0	29.2	25.6	22.8	20.6
KGM 205 P	302	279	250	232	169	126	97.5	67.6	45.1	37.7	32.3	28.4	25.3	22.8
KGM 225 P	318	294	264	244	180	139	107	74.2	49.5	41.3	35.5	31.0	27.7	25.0
KGM 250 P	354	327	293	272	198	154	119	82.4	55.0	45.9	39.4	34.6	30.8	27.8
KGM 270 P	382	353	317	293	216	166	128	89.1	59.4	49.6	42.6	37.3	33.3	30.0
KGM 300 P	441	399	357	324	242	181	140	96.3	66.0	55.1	47.3	41.5	37.0	33.3
KGM 320 P	471	426	381	346	259	193	149	102	70.4	58.8	50.5	44.3	39.4	35.6
KGM 340 P	500	453	404	367	274	206	158	108	74.8	62.5	53.6	47.0	41.9	37.8
KGM 355 P	522	473	422	384	287	214	165	113	78.1	65.2	56.0	49.1	43.7	39.4
KGM 380 P	559	506	452	411	307	230	177	121	83.6	69.8	60.0	52.6	46.8	42.2
KGM 400 P	574	519	464	422	315	236	182	128	88.0	73.5	63.1	55.3	49.3	44.4
KGM 450 P	637	589	528	479	354	289	223	155	99.9	83.4	71.6	62.8	55.9	50.4
KGM 470 P	666	615	551	500	370	302	233	162	104	87.3	75.0	65.7	58.5	52.8
KGM 500 P	708	654	587	532	394	321	248	172	111	92.7	79.6	69.8	62.1	56.0
KGM 520 P	736	680	610	554	409	334	258	179	115	96.6	83.0	72.7	64.8	58.4
KGM 550 P	780	720	646	586	433	353	273	189	122	101	87.5	76.8	68.3	61.6
KGM 570 P	807	746	668	607	449	366	283	196	126	105	90.9	79.7	71.0	64.0
KGM 600 P	850	785	703	639	472	385	297	207	133	111	95.4	83.6	74.5	67.2
KGM 630 P	892	824	739	671	496	404	312	217	140	117	100	88.1	78.5	70.8
KGM 675 P	956	883	792	719	532	434	335	232	150	125	107	94.3	84.0	75.8
KGM 690 P	977	903	809	735	543	443	342	237	153	128	110	96.5	85.9	77.5
KGM 750 P	1063	981	880	799	590	481	372	258	167	139	119	105	93.5	84.3
KGM 770 P	1090	1007	903	820	606	494	382	265	171	143	122	107	95.9	86.5
KGM 800 P	1133	1046	938	852	630	513	397	275	177	148	127	111	99.6	89.9
KGM 850 P	1204	1112	997	905	669	545	422	292	189	157	135	118	105	95.5
KGM 950 P	1345	1243	1114	1012	748	610	471	327	211	176	151	132	118	106
KGM 1000 P	1417	1308	1173	1065	787	642	496	344	222	185	159	139	124	112
KGM 1030 P	1458	1347	1208	1097	811	661	511	354	229	191	164	144	128	115
KGM 1130 P	1600	1478	1325	1203	890	725	560	389	251	209	180	158	140	126
KGM 1250 P	1770	1635	1466	1331	984	802	620	430	278	232	199	174	155	140

SINGLE CELL CONSTRUCTION

Low pressure flame arresting vent

Safety terminal -

Redundant leak protection minimizes carbonate formation

Electrode edge -

Connected to terminal by screwing or welding providing high mechanical stability

Electrode frame -

Consisting of electrode edge and side bars. Seals the plates and works as a current collector

Horizontal pockets -

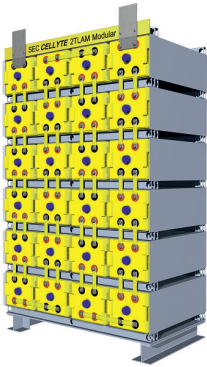
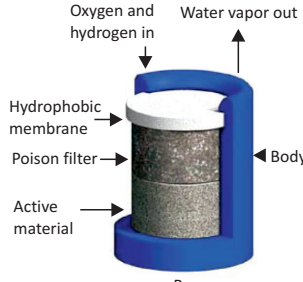
Formed by perforated steel strips containing the active material

Felt separator -

Special felt separator insulates the plates and improves the internal recombination



SEC Industrial Battery Co. range of products

			
CELLYTE 2CMT/G Modular Steel Rack	CELLYTE 2TLM/G Tubular Steel Rack	CELLYTE 2CMT/G, CELLYTE 2TLM/G with Catalyst	
			
CELLYTE 12PLF & 12PLT Range	CELLYTE 12FTA/G Range	CELLYTE 6-12TUA Range	CELLYTE 6-12TSG Range
			
CELLYTE 6-12TLA Range	CELLYTE 6-12TLG Range	MICROLYTE +Plus Range	MICROLYTE Red Top Range
			
CELLYTE 2ETG OPzV Range Tubular Steel Rack	SEC Tubular OPzS Range	Nickel Cadmium Range Pocket Plate flooded and Valve Regulated	Typical VRLA catalyst

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