

NiCd RANGE

GAS RECOMBINATION TYPE NICKEL CADMIUM BATTERY



Capacity: 30 Ah to 600 Ah

Ideal Choice of New Backup Power

The new type battery PMI Gas Recombination Battery, combined mature pocket battery technology, blended in PMI new technology, obtained Ultra-low maintenance or even free maintenance characteristics, becomes an ideal choice of new backup power.



- Infrequency Water filling, gas recombination is controlled, no failure risk.
- Work temperature ranges from -50°C to 70°C .
- High electrical and physical abuse durability, suitable for various kinds of operation conditions, low maintenance, safe and reliable.
- Comply with IEC62259-2003, IEC60623-2001 and IEC61373-2010 standards.

Distinct Superiority

As the backup power solution, high reliability and easy maintenance are required. New generation Changhong Gas Recombination Battery has special advantages as follows:





■ Technology Superiority

- The electrode uses steel tape as the framework. No react with electrolyte and remain complete during the whole service life.
- The separator is made of polypropylene fiber felt.
- No electrolyte replacement within service life.
- Terminals are made of steel or copper which has excellent electric conductivity and high mechanical strength.
- Battery case is made of high strength, corrosion resisting, translucent engineering plastics
- No sudden death risk.
- Gas recombination efficiency can reach 85% ~ 95%.
- Ultra high gas recombination efficiency, which reduces 90% water consumption.

■ Long life with low maintenance

- Within service life, the battery needs water refilling for 1 time at most.
- The cycle life is over 2000 times and the service life can exceed 25 years.

■ Battery Models

We have Alternative low and medium rate batteries with capacity ranging from 30Ah to 600Ah, and we can also design the batteries according to customers' demands.



Application Fields

Electric power
Communication
Rail transit
Metallurgy
Mining industry
Lighting
Backup power
Solar energy and wind energy



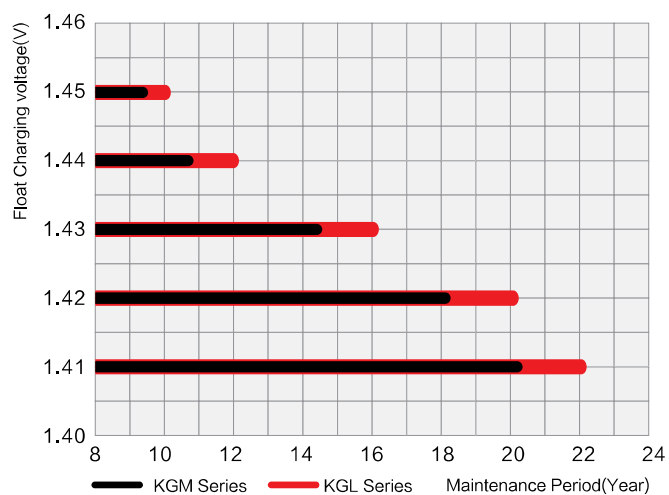


Figure 1 Maintenance cycle of KGL series and KGM series battery under different float charging voltage (20°C)

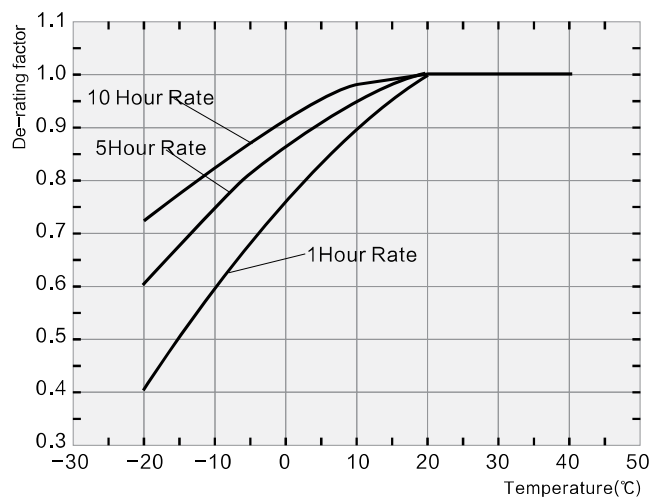


Figure 2 Temperature Effect Curves of KGM Series

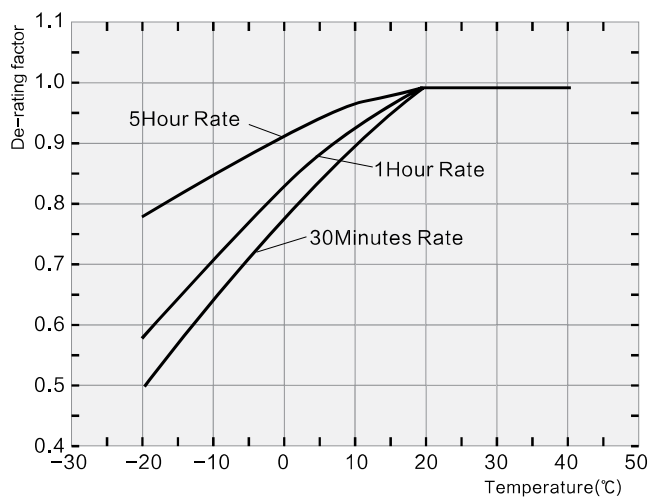


Figure 3 Temperature Effect Curves of KGM Series

Physical Properties



KGL Series

Model	Nominal Voltage V	Rated Capacity C ₅ Ah	Max. External Dimension mm			Max. Weight kg	Electrolyte Volume L	Terminal Size	Container Material
			Length	Width	Height				
KGL30	1.2	30	68	134	245	2.8	0.8	M10 × 1	ABS or PP
KGL40	1.2	40	68	134	245	3.0	0.8	M10 × 1	ABS or PP
KGL50	1.2	50	68	134	245	3.0	0.7	M10 × 1	ABS or PP
KGL60	1.2	60	70	134	285	4.2	0.8	M16	ABS or PP
KGL70	1.2	70	70	134	285	4.2	0.6	M16	ABS or PP
KGL80	1.2	80	80	141	365	5.8	1.7	M10 × 1	PP
KGL90	1.2	90	80	141	365	5.8	1.7	M10 × 1	PP
KGL95	1.2	95	68	190	345	5.8	0.8	M10 × 1	PP
KGL100	1.2	100	80	141	365	6.2	1.6	M10 × 1	PP
KGL110	1.2	110	80	141	365	6.4	1.4	M10 × 1	PP
KGL120	1.2	120	80	141	365	6.4	1.3	M10 × 1	PP
KGL130	1.2	130	80	141	365	6.5	1.2	M10 × 1	PP
KGL140	1.2	140	106	164	345	9.0	2.1	M20	ABS or PP
KGL150	1.2	150	106	164	345	9.0	2.5	M20	ABS or PP
KGL160	1.2	160	106	164	345	9.6	2.0	M20	ABS or PP
KGL170	1.2	170	106	164	345	9.7	1.8	M20	ABS or PP
KGL180	1.2	180	106	164	345	9.8	1.8	M20	ABS or PP
KGL190	1.2	190	106	164	345	9.9	1.8	M20	ABS or PP
KGL200	1.2	200	106	164	345	10.0	1.8	M20	ABS or PP
KGL250	1.2	250	164	167	345	13.6	3.0	M20	ABS or PP
KGL300	1.2	300	164	167	345	15.0	2.7	M20	ABS or PP
KGL350	1.2	350	152	170	385	17.4	2.8	M20	PP
KGL400	1.2	400	152	170	385	17.5	2.8	M20	PP
KGL450	1.2	450	138	276	450	24.0	4.4	2 × M16	PP
KGL500	1.2	500	138	276	490	27.0	6.1	2 × M16	PP
KGL550	1.2	550	176	291	510	37.5	8.4	2 × M20	ABS
KGL600	1.2	600	176	291	510	38.0	9.2	2 × M20	ABS

Physical Properties



KGM Series

Model	Nominal Voltage V	Rated Capacity C _r Ah	Max. External Dimension mm			Max. Weight kg	Electrolyte Volume L	Terminal Size	Container Material
			Length	Width	Height				
KGM 90	1.2	90	106	164	345	9.0	2.1	M20	ABS OR PP
KGM 95	1.2	95	107	165	348	8.6	2.0	M20	ABS OR PP
KGM100	1.2	100	106	164	345	9.0	2.1	M20	ABS OR PP
KGM110	1.2	110	106	164	345	9.3	1.8	M20	ABS OR PP
KGM120	1.2	120	106	164	345	9.5	1.3	M20	ABS OR PP
KGM125	1.2	125	164	167	348	8.6	3.7	M20	ABS OR PP
KGM130	1.2	130	164	167	345	12.2	3.8	M20	ABS OR PP
KGM140	1.2	140	164	167	345	12.8	3.7	M20	ABS OR PP
KGM150	1.2	150	164	167	345	13.0	3.7	M20	ABS OR PP
KGM160	1.2	160	164	167	345	13.0	3.3	M20	ABS OR PP
KGM170	1.2	170	164	167	345	13.5	3.3	M20	ABS OR PP
KGM180	1.2	180	164	167	345	14.0	3.3	M20	ABS OR PP
KGM190	1.2	190	164	167	345	14.3	3.3	M20	ABS OR PP
KGM200	1.2	200	164	167	345	14.5	3.5	M20	ABS OR PP
KGM210	1.2	210	152	170	385	15.8	3.4	M20	PP
KGM220	1.2	220	152	170	385	16.1	3.4	M20	PP
KGM230	1.2	230	152	170	385	16.1	3.3	M20	PP
KGM240	1.2	240	152	170	385	16.2	3.3	M20	PP
KGM250	1.2	250	152	170	385	16.4	3.3	M20	PP
KGM260	1.2	260	162	200	450	22.2	5.3	2×M16	PP
KGM270	1.2	270	162	200	450	22.4	5.2	2×M16	PP
KGM280	1.2	280	138	278	490	22.6	5.2	2×M16	PP
KGM290	1.2	290	138	278	490	22.8	5.2	2×M16	PP
KGM300	1.2	300	138	278	490	23.0	5.1	2×M16	PP
KGM310	1.2	310	138	278	490	23.4	5.1	2×M16	PP
KGM320	1.2	320	138	278	490	23.6	5.1	2×M16	PP
KGM330	1.2	330	138	278	490	23.6	5.1	2×M16	PP
KGM340	1.2	340	138	278	490	23.8	5.0	2×M16	PP
KGM350	1.2	350	138	278	490	24.0	5.0	2×M16	PP
KGM360	1.2	360	138	278	490	27.0	4.2	2×M16	PP
KGM370	1.2	370	138	278	490	27.0	4.2	2×M16	PP

Physical Properties



KGM Series

Model	Nominal Voltage V	Rated Capacity C ₅ Ah	Max. External Dimension mm			Max. Weight kg	Electrolyte Volume L	Terminal Size	Container Material
			Length	Width	Height				
KGM380	1.2	380	138	278	490	26.0	4.2	2×M16	PP
KGM390	1.2	390	138	278	490	26.6	4.2	2×M16	PP
KGM400	1.2	400	138	278	490	27.0	4.2	2×M16	PP
KGM410	1.2	410	176	291	510	38.2	9.1	2×M20	ABS
KGM420	1.2	420	176	291	510	38.6	9.1	2×M20	ABS
KGM430	1.2	430	176	291	510	38.8	9.1	2×M20	ABS
KGM440	1.2	440	176	291	510	38.8	9.1	2×M20	ABS
KGM450	1.2	450	176	291	510	39.0	9.1	2×M20	ABS
KGM460	1.2	460	176	291	510	39.2	9.1	2×M20	ABS
KGM470	1.2	470	176	291	510	39.5	9.1	2×M20	ABS
KGM480	1.2	480	176	291	510	39.7	9.1	2×M20	ABS
KGM490	1.2	490	176	291	510	39.8	9.1	2×M20	ABS
KGM500	1.2	500	176	291	510	40.0	9.1	2×M20	ABS
KGM510	1.2	510	176	291	510	40.6	9.0	2×M20	ABS
KGM520	1.2	520	176	291	510	40.8	8.9	2×M20	ABS
KGM530	1.2	530	176	291	510	40.8	8.8	2×M20	ABS
KGM540	1.2	540	176	291	510	41.0	8.7	2×M20	ABS
KGM550	1.2	550	176	291	510	41.2	8.6	2×M20	ABS
KGM560	1.2	560	176	291	510	41.5	8.6	2×M20	ABS
KGM570	1.2	570	176	291	510	41.6	8.5	2×M20	ABS
KGM580	1.2	580	176	291	510	41.8	8.4	2×M20	ABS
KGM590	1.2	590	176	291	510	41.9	8.3	2×M20	ABS
KGM600	1.2	600	176	291	510	42.0	8.3	2×M20	ABS

Remarks:

- 1) Our company could design new battery and Combine-unit, Combination frame, Combo box etc. for supporting the battery; We can also provide battery total solution as per customer.
- 2) Our company is committed to technical innovation, and continuously provides better products and services to meet customers' demand. About the update of product design and technical specification, unless special noticed, please reference to specific project.

Electrical Properties

KGL series



Discharge performance data after being fully charged by constant current according to IEC62259–2003
Available current under 20°C ± 5°C Final voltage 1.14V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL30	30	2.84	3.61	5.66	8.92	10.7	11.7	12.9	15.3	16.6	17.8	19.1	21.2	25.1	26.5	30.5	34.0
KGL40	40	3.79	4.81	7.55	11.9	14.3	15.6	17.2	20.4	22.1	23.7	25.5	28.3	33.5	35.3	40.7	45.3
KGL50	50	4.73	6.02	9.43	14.9	17.8	19.5	21.5	25.5	27.7	29.7	31.8	35.3	41.8	44.2	50.8	56.7
KGL60	60	5.68	7.22	11.3	17.8	21.4	23.4	25.8	30.6	33.2	35.6	38.2	42.4	50.2	53.0	61.0	68.0
KGL70	70	6.63	8.42	13.2	20.8	25.0	27.3	30.1	35.7	38.7	41.5	44.6	49.5	58.6	61.8	71.2	79.3
KGL80	80	7.57	9.63	15.1	23.8	28.5	31.2	34.4	40.8	44.3	47.5	50.9	56.5	66.9	70.7	81.3	90.7
KGL90	90	8.52	10.8	17.0	26.8	32.1	35.1	38.7	45.9	49.8	53.4	57.3	63.6	75.3	79.5	91.5	102
KGL95	95	8.99	11.4	17.9	28.2	33.9	37.1	40.9	48.5	52.6	56.4	60.5	67.1	79.5	83.9	96.6	108
KGL100	100	9.47	12.0	18.9	29.7	35.7	39.0	43.0	51.0	55.3	59.3	63.7	70.7	83.7	88.3	102	113
KGL110	110	10.4	13.2	20.8	32.7	39.2	42.9	47.3	56.1	60.9	65.3	70.0	77.7	92.0	97.2	112	125
KGL120	120	11.4	14.4	22.6	35.7	42.8	46.8	51.6	61.2	66.4	71.2	76.4	84.8	100	106	122	136
KGL130	130	12.3	15.6	24.5	38.7	46.4	50.7	55.9	66.3	71.9	77.1	82.8	91.9	109	115	132	147
KGL140	140	13.3	16.8	26.4	41.6	49.9	54.6	60.2	71.4	77.5	83.1	89.1	98.9	117	124	142	159
KGL150	150	14.2	18.1	28.3	44.6	53.5	58.5	64.5	76.5	83.0	89.0	95.5	106	126	133	153	170
KGL160	160	15.1	19.3	30.2	47.6	57.1	62.4	68.8	81.6	88.5	94.9	102	113	134	141	163	181
KGL170	170	16.1	20.5	32.1	50.5	60.6	66.3	73.1	86.7	94.1	101	108	120	142	150	173	193
KGL180	180	17.0	21.7	34.0	53.5	64.2	70.2	77.4	91.8	99.6	107	115	127	151	159	183	204
KGL190	190	18.0	22.9	35.8	56.5	67.8	74.1	81.7	96.9	105	113	121	134	159	168	193	215
KGL200	200	18.9	24.1	37.7	59.5	71.3	78.0	86.0	102	111	119	127	141	167	177	203	227
KGL210	210	19.9	25.3	39.6	62.4	74.9	81.9	90.3	107	116	125	134	148	176	186	214	238
KGL220	220	20.8	26.5	41.5	65.4	78.5	85.8	94.6	112	122	131	140	155	184	194	224	249
KGL230	230	21.8	27.7	43.4	68.4	82.0	89.7	98.9	117	127	136	146	163	192	203	234	261
KGL240	240	22.7	28.9	45.3	71.4	85.6	93.6	103	122	133	142	153	170	201	212	244	272
KGL250	250	23.7	30.1	47.2	74.3	89.2	97.5	108	128	138	148	159	177	209	221	254	283
KGL260	260	24.6	31.3	49.1	77.3	92.7	101	112	133	144	154	166	184	218	230	264	295
KGL270	270	25.6	32.5	50.9	80.3	96.3	105	116	138	149	160	172	191	226	239	275	306
KGL280	280	26.5	33.7	52.8	83.3	99.9	109	120	143	155	166	178	198	234	247	285	317
KGL290	290	27.5	34.9	54.7	86.2	103	113	125	148	160	172	185	205	243	256	295	329
KGL300	300	28.4	36.1	56.6	89.2	107	117	129	153	166	178	191	212	251	265	305	340
KGL310	310	29.3	37.3	58.5	92.2	111	121	133	158	172	184	197	219	259	274	315	351

Electrical Properties

KGL series



Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL320	320	30.3	38.5	60.4	95.1	114	125	138	163	177	190	204	226	268	283	325	363
KGL330	330	31.2	39.7	62.3	98.1	118	129	142	168	183	196	210	233	276	292	336	374
KGL340	340	32.2	40.9	64.1	101	121	133	146	173	188	202	216	240	284	300	346	385
KGL350	350	33.1	42.1	66.0	104	125	137	151	179	194	208	223	247	293	309	356	397
KGL360	360	34.1	43.3	67.9	107	128	140	155	184	199	214	229	254	301	318	366	408
KGL370	370	35.0	44.5	69.8	110	132	144	159	189	205	220	236	261	310	327	376	419
KGL380	380	36.0	45.7	71.7	113	136	148	163	194	210	225	242	269	318	336	386	431
KGL390	390	36.9	46.9	73.6	116	139	152	168	199	216	231	248	276	326	345	397	442
KGL400	400	37.9	48.1	75.5	119	143	156	172	204	221	237	255	283	335	353	407	453
KGL410	410	38.8	49.3	77.4	122	146	160	176	209	227	243	261	290	343	362	417	465
KGL420	420	39.8	50.5	79.2	125	150	164	181	214	232	249	267	297	351	371	427	476
KGL430	430	40.7	51.7	81.1	128	153	168	185	219	238	255	274	304	360	380	437	487
KGL440	440	41.7	52.9	83.0	131	157	172	189	224	243	261	280	311	368	389	447	499
KGL450	450	42.6	54.1	84.9	134	161	176	194	230	249	267	287	318	377	398	458	510
KGL460	460	43.5	55.4	86.8	137	164	179	198	235	255	273	293	325	385	406	468	521
KGL470	470	44.5	56.6	88.7	140	168	183	202	240	260	279	299	332	393	415	478	533
KGL480	480	45.4	57.8	90.6	143	171	187	206	245	266	285	306	339	402	424	488	544
KGL490	490	46.4	59.0	92.4	146	175	191	211	250	271	291	312	346	410	433	498	555
KGL500	500	47.3	60.2	94.3	149	178	195	215	255	277	297	318	353	418	442	508	567
KGL510	510	48.3	61.4	96.2	152	182	199	219	260	282	303	325	360	427	451	519	578
KGL520	520	49.2	62.6	98.1	155	185	203	224	265	288	309	331	367	435	459	529	589
KGL530	530	50.2	63.8	100	158	189	207	228	270	293	314	337	375	443	468	539	601
KGL540	540	51.1	65.0	102	161	193	211	232	275	299	320	344	382	452	477	549	612
KGL550	550	52.1	66.2	104	164	196	215	237	281	304	326	350	389	460	486	559	623
KGL560	560	53.0	67.4	106	167	200	218	241	286	310	332	357	396	469	495	569	635
KGL570	570	54.0	68.6	108	169	203	222	245	291	315	338	363	403	477	503	580	646
KGL580	580	54.9	69.8	109	172	207	226	249	296	321	344	369	410	485	512	590	657
KGL590	590	55.9	71.0	111	175	210	230	254	301	326	350	376	417	494	521	600	669
KGL600	600	56.8	72.2	113	178	214	234	258	306	332	356	382	424	502	530	610	680

Electrical Properties

KGL series



Discharge performance data after being fully charged by constant current according to IEC62259
Available current under 20°C ±5°C Final voltage 1.10V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL30	30	2.98	3.76	5.83	9.25	12.8	15.0	17.6	20.5	21.6	23.2	24.8	27.3	31.3	32.9	35.9	38.9
KGL40	40	3.97	5.01	7.77	12.3	17.1	20.0	23.5	27.3	28.8	30.9	33.1	36.4	41.7	43.9	47.9	51.9
KGL50	50	4.97	6.27	9.72	15.4	21.3	25.0	29.3	34.2	36.0	38.7	41.3	45.5	52.2	54.8	59.8	64.8
KGL60	60	5.96	7.52	11.7	18.5	25.6	30.0	35.2	41.0	43.2	46.4	49.6	54.6	62.6	65.8	71.8	77.8
KGL70	70	6.95	8.77	13.6	21.6	29.9	35.0	41.1	47.8	50.4	54.1	57.9	63.7	73.0	76.8	83.8	90.8
KGL80	80	7.95	10.03	15.5	24.7	34.1	40.0	46.9	54.7	57.6	61.9	66.1	72.8	83.5	87.7	95.7	104
KGL90	90	8.94	11.28	17.5	27.8	38.4	45.0	52.8	61.5	64.8	69.6	74.4	81.9	93.9	98.7	108	117
KGL95	95	9.44	11.91	18.5	29.3	40.5	47.5	55.7	64.9	68.4	73.5	78.5	86.5	99.1	104	114	123
KGL100	100	9.93	12.53	19.4	30.8	42.7	50.0	58.7	68.3	72.0	77.3	82.7	91.0	104	110	120	130
KGL110	110	10.9	13.8	21.4	33.9	46.9	55.0	64.5	75.2	79.2	85.1	90.9	100	115	121	132	143
KGL120	120	11.9	15.0	23.3	37.0	51.2	60.0	70.4	82.0	86.4	92.8	99.2	109	125	132	144	156
KGL130	130	12.9	16.3	25.3	40.1	55.5	65.0	76.3	88.8	93.6	101	107	118	136	143	156	169
KGL140	140	13.9	17.5	27.2	43.2	59.7	70.0	82.1	95.7	101	108	116	127	146	154	168	182
KGL150	150	14.9	18.8	29.2	46.3	64.0	75.0	88.0	103	108	116	124	137	157	165	180	195
KGL160	160	15.9	20.1	31.1	49.3	68.3	80.0	93.9	109	115	124	132	146	167	175	191	207
KGL170	170	16.9	21.3	33.0	52.4	72.5	85.0	99.7	116	122	131	141	155	177	186	203	220
KGL180	180	17.9	22.6	35.0	55.5	76.8	90.0	106	123	130	139	149	164	188	197	215	233
KGL190	190	18.9	23.8	36.9	58.6	81.1	95.0	111	130	137	147	157	173	198	208	227	246
KGL200	200	19.9	25.1	38.9	61.7	85.3	100	117	137	144	155	165	182	209	219	239	259
KGL210	210	20.9	26.3	40.8	64.8	89.6	105	123	144	151	162	174	191	219	230	251	272
KGL220	220	21.9	27.6	42.8	67.8	93.9	110	129	150	158	170	182	200	230	241	263	285
KGL230	230	22.8	28.8	44.7	70.9	98.1	115	135	157	166	178	190	209	240	252	275	298
KGL240	240	23.8	30.1	46.6	74.0	102	120	141	164	173	186	198	218	250	263	287	311
KGL250	250	24.8	31.3	48.6	77.1	107	125	147	171	180	193	207	228	261	274	299	324
KGL260	260	25.8	32.6	50.5	80.2	111	130	153	178	187	201	215	237	271	285	311	337
KGL270	270	26.8	33.8	52.5	83.3	115	135	158	185	194	209	223	246	282	296	323	350
KGL280	280	27.8	35.1	54.4	86.3	119	140	164	191	202	217	231	255	292	307	335	363
KGL290	290	28.8	36.3	56.4	89.4	124	145	170	198	209	224	240	264	303	318	347	376
KGL300	300	29.8	37.6	58.3	92.5	128	150	176	205	216	232	248	273	313	329	359	389
KGL310	310	30.8	38.9	60.2	95.6	132	155	182	212	223	240	256	282	323	340	371	402

Electrical Properties

KGL series



Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL320	320	31.8	40.1	62.2	98.7	137	160	188	219	230	247	265	291	334	351	383	415
KGL330	330	32.8	41.4	64.1	102	141	165	194	226	238	255	273	300	344	362	395	428
KGL340	340	33.8	42.6	66.1	105	145	170	199	232	245	263	281	309	355	373	407	441
KGL350	350	34.8	43.9	68.0	108	149	175	205	239	252	271	289	319	365	384	419	454
KGL360	360	35.8	45.1	70.0	111	154	180	211	246	259	278	298	328	376	395	431	467
KGL370	370	36.8	46.4	71.9	114	158	185	217	253	266	286	306	337	386	406	443	480
KGL380	380	37.7	47.6	73.8	117	162	190	223	260	274	294	314	346	396	417	455	493
KGL390	390	38.7	48.9	75.8	120	166	195	229	267	281	302	322	355	407	428	467	506
KGL400	400	39.7	50.1	77.7	123	171	200	235	273	288	309	331	364	417	439	479	519
KGL410	410	40.7	51.4	79.7	126	175	205	241	280	295	317	339	373	428	450	491	532
KGL420	420	41.7	52.6	81.6	130	179	210	246	287	302	325	347	382	438	461	503	545
KGL430	430	42.7	53.9	83.6	133	183	215	252	294	310	333	355	391	449	472	515	558
KGL440	440	43.7	55.1	85.5	136	188	220	258	301	317	340	364	400	459	483	527	571
KGL450	450	44.7	56.4	87.5	139	192	225	264	308	324	348	372	410	470	493	539	584
KGL460	460	45.7	57.7	89.4	142	196	230	270	314	331	356	380	419	480	504	550	596
KGL470	470	46.7	58.9	91.3	145	201	235	276	321	338	363	389	428	490	515	562	609
KGL480	480	47.7	60.2	93.3	148	205	240	282	328	346	371	397	437	501	526	574	622
KGL490	490	48.7	61.4	95.2	151	209	245	287	335	353	379	405	446	511	537	586	635
KGL500	500	49.7	62.7	97.2	154	213	250	293	342	360	387	413	455	522	548	598	648
KGL510	510	50.7	63.9	99.1	157	218	255	299	349	367	394	422	464	532	559	610	661
KGL520	520	51.7	65.2	101	160	222	260	305	355	374	402	430	473	543	570	622	674
KGL530	530	52.6	66.4	103	163	226	265	311	362	382	410	438	482	553	581	634	687
KGL540	540	53.6	67.7	105	167	230	270	317	369	389	418	446	491	563	592	646	700
KGL550	550	54.6	68.9	107	170	235	275	323	376	396	425	455	500	574	603	658	713
KGL560	560	55.6	70.2	109	173	239	280	329	383	403	433	463	510	584	614	670	726
KGL570	570	56.6	71.4	111	176	243	285	334	389	410	441	471	519	595	625	682	739
KGL580	580	57.6	72.7	113	179	247	290	340	396	418	449	479	528	605	636	694	752
KGL590	590	58.6	73.9	115	182	252	295	346	403	425	456	488	537	616	647	706	765
KGL600	600	59.6	75.2	117	185	256	300	352	410	432	464	496	546	626	658	718	778

Electrical Properties

KGL series battery



Discharge performance data after being fully charged by constant current according to IEC62259
Available current under 20°C ± 5°C Final voltage 1.05V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL30	30	3.03	3.75	5.94	9.53	13.5	16.8	20.1	24.7	26.4	27.6	28.8	31.1	36.5	39.1	44.2	48.2
KGL40	40	4.04	5.00	7.92	12.7	18.0	22.4	26.8	32.9	35.2	36.8	38.4	41.5	48.7	52.1	58.9	64.3
KGL50	50	5.05	6.25	9.90	15.9	22.5	28.0	33.5	41.2	44.0	46.0	48.0	51.8	60.8	65.2	73.7	80.3
KGL60	60	6.06	7.50	11.9	19.1	27.0	33.6	40.2	49.4	52.8	55.2	57.6	62.2	73.0	78.2	88.4	96.4
KGL70	70	7.07	8.75	13.9	22.2	31.5	39.2	46.9	57.6	61.6	64.4	67.2	72.6	85.2	91.2	103	112
KGL80	80	8.08	10.0	15.8	25.4	36.0	44.8	53.6	65.9	70.4	73.6	76.8	82.9	97.3	104	118	129
KGL90	90	9.09	11.3	17.8	28.6	40.5	50.4	60.3	74.1	79.2	82.8	86.4	93.3	110	117	133	145
KGL95	95	9.60	11.9	18.8	30.2	42.8	53.2	63.7	78.2	83.6	87.4	91.2	98.5	116	124	140	153
KGL100	100	10.1	12.5	19.8	31.8	45.0	56.0	67.0	82.3	88.0	92.0	96.0	104	122	130	147	161
KGL110	110	11.1	13.8	21.8	34.9	49.5	61.6	73.7	90.6	96.8	101	106	114	134	143	162	177
KGL120	120	12.1	15.0	23.8	38.1	54.0	67.2	80.4	98.8	106	110	115	124	146	156	177	193
KGL130	130	13.1	16.3	25.7	41.3	58.5	72.8	87.1	107	114	120	125	135	158	169	192	209
KGL140	140	14.1	17.5	27.7	44.5	63.0	78.4	93.8	115	123	129	134	145	170	182	206	225
KGL150	150	15.2	18.8	29.7	47.6	67.5	84.0	101	124	132	138	144	156	183	196	221	241
KGL160	160	16.2	20.0	31.7	50.8	72.0	89.6	107	132	141	147	154	166	195	209	236	257
KGL170	170	17.2	21.3	33.7	54.0	76.5	95.2	114	140	150	156	163	176	207	222	250	273
KGL180	180	18.2	22.5	35.6	57.2	81.0	101	121	148	158	166	173	187	219	235	265	289
KGL190	190	19.2	23.8	37.6	60.3	85.5	106	127	156	167	175	182	197	231	248	280	305
KGL200	200	20.2	25.0	39.6	63.5	90.0	112	134	165	176	184	192	207	243	261	295	321
KGL210	210	21.2	26.3	41.6	66.7	94.5	118	141	173	185	193	202	218	256	274	309	337
KGL220	220	22.2	27.5	43.6	69.9	99.0	123	147	181	194	202	211	228	268	287	324	353
KGL230	230	23.2	28.8	45.5	73.0	104	129	154	189	202	212	221	238	280	300	339	370
KGL240	240	24.2	30.0	47.5	76.2	108	134	161	198	211	221	230	249	292	313	354	386
KGL250	250	25.3	31.3	49.5	79.4	113	140	168	206	220	230	240	259	304	326	368	402
KGL260	260	26.3	32.5	51.5	82.6	117	146	174	214	229	239	250	270	316	339	383	418
KGL270	270	27.3	33.8	53.5	85.7	122	151	181	222	238	248	259	280	329	352	398	434
KGL280	280	28.3	35.0	55.4	88.9	126	157	188	231	246	258	269	290	341	365	413	450
KGL290	290	29.3	36.3	57.4	92.1	131	162	194	239	255	267	278	301	353	378	427	466
KGL300	300	30.3	37.5	59.4	95.3	135	168	201	247	264	276	288	311	365	391	442	482
KGL310	310	31.3	38.8	61.4	98.5	140	174	208	255	273	285	298	321	377	404	457	498

Electrical Properties

KGL series battery



Models	I _b Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL320	320	32.3	40.0	63.4	102	144	179	214	263	282	294	307	332	389	417	471	514
KGL330	330	33.3	41.3	65.3	105	149	185	221	272	290	304	317	342	402	430	486	530
KGL340	340	34.3	42.5	67.3	108	153	190	228	280	299	313	326	352	414	443	501	546
KGL350	350	35.4	43.8	69.3	111	158	196	235	288	308	322	336	363	426	456	516	562
KGL360	360	36.4	45.0	71.3	114	162	202	241	296	317	331	346	373	438	469	530	578
KGL370	370	37.4	46.3	73.3	118	167	207	248	305	326	340	355	384	450	482	545	594
KGL380	380	38.4	47.5	75.2	121	171	213	255	313	334	350	365	394	462	495	560	611
KGL390	390	39.4	48.8	77.2	124	176	218	261	321	343	359	374	404	475	508	575	627
KGL400	400	40.4	50.0	79.2	127	180	224	268	329	352	368	384	415	487	521	589	643
KGL410	410	41.4	51.3	81.2	130	185	230	275	338	361	377	394	425	499	534	604	659
KGL420	420	42.4	52.5	83.2	133	189	235	281	346	370	386	403	435	511	547	619	675
KGL430	430	43.4	53.8	85.1	137	194	241	288	354	378	396	413	446	523	560	634	691
KGL440	440	44.4	55.0	87.1	140	198	246	295	362	387	405	422	456	535	573	648	707
KGL450	450	45.5	56.3	89.1	143	203	252	302	371	396	414	432	467	548	587	663	723
KGL460	460	46.5	57.5	91.1	146	207	258	308	379	405	423	442	477	560	600	678	739
KGL470	470	47.5	58.8	93.1	149	212	263	315	387	414	432	451	487	572	613	692	755
KGL480	480	48.5	60.0	95.0	152	216	269	322	395	422	442	461	498	584	626	707	771
KGL490	490	49.5	61.3	97.0	156	221	274	328	403	431	451	470	508	596	639	722	787
KGL500	500	50.5	62.5	99.0	159	225	280	335	412	440	460	480	518	608	652	737	803
KGL510	510	51.5	63.8	101	162	230	286	342	420	449	469	490	529	621	665	751	819
KGL520	520	52.5	65.0	103	165	234	291	348	428	458	478	499	539	633	678	766	835
KGL530	530	53.5	66.3	105	168	239	297	355	436	466	488	509	549	645	691	781	852
KGL540	540	54.5	67.5	107	171	243	302	362	445	475	497	518	560	657	704	796	868
KGL550	550	55.6	68.8	109	175	248	308	369	453	484	506	528	570	669	717	810	884
KGL560	560	56.6	70.0	111	178	252	314	375	461	493	515	538	581	681	730	825	900
KGL570	570	57.6	71.3	113	181	257	319	382	469	502	524	547	591	693	743	840	916
KGL580	580	58.6	72.5	115	184	261	325	389	478	510	534	557	601	706	756	855	932
KGL590	590	59.6	73.8	117	187	266	330	395	486	519	543	566	612	718	769	869	948
KGL600	600	60.6	75.0	119	191	270	336	402	494	528	552	576	622	730	782	884	964

Electrical Properties

KGL series battery



Discharge performance data after being fully charged by constant current according to IEC62259
Available current under 20°C ± 5°C Final voltage 1.00V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL30	30	3.06	3.78	6.00	9.69	13.9	18.3	23.6	28.1	30.1	31.6	33.5	35.8	41.0	43.3	49.0	55.1
KGL40	40	4.08	5.04	8.00	12.9	18.5	24.4	31.5	37.5	40.1	42.1	44.7	47.7	54.7	57.7	65.3	73.5
KGL50	50	5.10	6.30	10.0	16.2	23.2	30.5	39.3	46.8	50.2	52.7	55.8	59.7	68.3	72.2	81.7	91.8
KGL60	60	6.12	7.56	12.0	19.4	27.8	36.6	47.2	56.2	60.2	63.2	67.0	71.6	82.0	86.6	98.0	110
KGL70	70	7.14	8.82	14.0	22.6	32.4	42.7	55.1	65.6	70.2	73.7	78.2	83.5	95.7	101	114	129
KGL80	80	8.16	10.08	16.0	25.8	37.1	48.8	62.9	74.9	80.3	84.3	89.3	95.5	109	115	131	147
KGL90	90	9.18	11.34	18.0	29.1	41.7	54.9	70.8	84.3	90.3	94.8	101	107	123	130	147	165
KGL95	95	9.69	11.97	19.0	30.7	44.0	58.0	74.7	89.0	95.3	100	106	113	130	137	155	174
KGL100	100	10.2	12.6	20.0	32.3	46.3	61.0	78.7	93.7	100	105	112	119	137	144	163	184
KGL110	110	11.2	13.9	22.0	35.5	51.0	67.1	86.5	103	110	116	123	131	150	159	180	202
KGL120	120	12.2	15.1	24.0	38.8	55.6	73.2	94.4	112	120	126	134	143	164	173	196	220
KGL130	130	13.3	16.4	26.0	42.0	60.2	79.3	102	122	130	137	145	155	178	188	212	239
KGL140	140	14.3	17.6	28.0	45.2	64.9	85.4	110	131	140	147	156	167	191	202	229	257
KGL150	150	15.3	18.9	30.0	48.5	69.5	91.5	118	141	151	158	168	179	205	217	245	276
KGL160	160	16.3	20.2	32.0	51.7	74.1	97.6	126	150	161	169	179	191	219	231	261	294
KGL170	170	17.3	21.4	34.0	54.9	78.8	104	134	159	171	179	190	203	232	245	278	312
KGL180	180	18.4	22.7	36.0	58.1	83.4	110	142	169	181	190	201	215	246	260	294	331
KGL190	190	19.4	23.9	38.0	61.4	88.0	116	149	178	191	200	212	227	260	274	310	349
KGL200	200	20.4	25.2	40.0	64.6	92.7	122	157	187	201	211	223	239	273	289	327	367
KGL210	210	21.4	26.5	42.0	67.8	97.3	128	165	197	211	221	235	251	287	303	343	386
KGL220	220	22.4	27.7	44.0	71.1	102	134	173	206	221	232	246	263	301	318	359	404
KGL230	230	23.5	29.0	46.0	74.3	107	140	181	215	231	242	257	274	314	332	376	422
KGL240	240	24.5	30.2	48.0	77.5	111	146	189	225	241	253	268	286	328	346	392	441
KGL250	250	25.5	31.5	50.0	80.7	116	153	197	234	251	263	279	298	342	361	408	459
KGL260	260	26.5	32.8	52.0	84.0	120	159	205	244	261	274	290	310	355	375	425	478
KGL270	270	27.5	34.0	54.0	87.2	125	165	212	253	271	284	302	322	369	390	441	496
KGL280	280	28.6	35.3	56.0	90.4	130	171	220	262	281	295	313	334	383	404	457	514
KGL290	290	29.6	36.5	58.0	93.7	134	177	228	272	291	305	324	346	396	419	474	533
KGL300	300	30.6	37.8	60.0	96.9	139	183	236	281	301	316	335	358	410	433	490	551
KGL310	310	31.6	39.1	62.0	100	144	189	244	290	311	327	346	370	424	447	506	569

Electrical Properties

KGL series battery



Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGL320	320	32.6	40.3	64.0	103	148	195	252	300	321	337	357	382	437	462	523	588
KGL330	330	33.7	41.6	66.0	107	153	201	260	309	331	348	369	394	451	476	539	606
KGL340	340	34.7	42.8	68.0	110	158	207	267	318	341	358	380	406	465	491	555	624
KGL350	350	35.7	44.1	70.0	113	162	214	275	328	351	369	391	418	478	505	572	643
KGL360	360	36.7	45.4	72.0	116	167	220	283	337	361	379	402	430	492	520	588	661
KGL370	370	37.7	46.6	74.0	120	171	226	291	347	371	390	413	442	506	534	604	680
KGL380	380	38.8	47.9	76.0	123	176	232	299	356	381	400	424	453	519	548	621	698
KGL390	390	39.8	49.1	78.0	126	181	238	307	365	391	411	436	465	533	563	637	716
KGL400	400	40.8	50.4	80.0	129	185	244	315	375	401	421	447	477	547	577	653	735
KGL410	410	41.8	51.7	82.0	132	190	250	323	384	411	432	458	489	560	592	670	753
KGL420	420	42.8	52.9	84.0	136	195	256	330	393	421	442	469	501	574	606	686	771
KGL430	430	43.9	54.2	86.0	139	199	262	338	403	431	453	480	513	588	621	702	790
KGL435	435	44.4	54.8	87.0	141	202	265	342	407	436	458	486	519	594	628	710	799
KGL440	440	44.9	55.4	88.0	142	204	268	346	412	441	463	491	525	601	635	719	808
KGL450	450	45.9	56.7	90.0	145	209	275	354	422	452	474	503	537	615	649	735	826
KGL460	460	46.9	58.0	92.0	149	213	281	362	431	462	485	514	549	629	664	751	845
KGL470	470	47.9	59.2	94.0	152	218	287	370	440	472	495	525	561	642	678	768	863
KGL480	480	49.0	60.5	96.0	155	222	293	378	450	482	506	536	573	656	693	784	882
KGL490	490	50.0	61.7	98.0	158	227	299	385	459	492	516	547	585	670	707	800	900
KGL500	500	51.0	63.0	100	162	232	305	393	468	502	527	558	597	683	722	817	918
KGL510	510	52.0	64.3	102	165	236	311	401	478	512	537	570	609	697	736	833	937
KGL520	520	53.0	65.5	104	168	241	317	409	487	522	548	581	621	711	751	849	955
KGL530	530	54.1	66.8	106	171	246	323	417	496	532	558	592	632	724	765	866	973
KGL540	540	55.1	68.0	108	174	250	329	425	506	542	569	603	644	738	779	882	992
KGL550	550	56.1	69.3	110	178	255	336	433	515	552	579	614	656	752	794	898	1010
KGL560	560	57.1	70.6	112	181	259	342	441	525	562	590	625	668	765	808	915	1029
KGL570	570	58.1	71.8	114	184	264	348	448	534	572	600	636	680	779	823	931	1047
KGL580	580	59.2	73.1	116	187	269	354	456	543	582	611	648	692	793	837	947	1065
KGL590	590	60.2	74.3	118	191	273	360	464	553	592	621	659	704	806	852	964	1084
KGL600	600	61.2	75.6	120	194	278	366	472	562	602	632	670	716	820	866	980	1102

Electrical Properties

KGM series



Discharge performance data after being fully charged by constant current according to IEC62259 (Data is only for the selection of reference, without assessment)

Available current under 20°C ± 5°C

Final voltage 1.14V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM30	30	3.00	3.65	5.63	8.8	11.7	13.5	17.7	22.3	26.5	28.4	29.7	34.7	46.5	54.3	64.9	84.5
KGM40	40	4.00	4.87	7.51	11.8	15.6	18.0	23.6	29.7	35.3	37.9	39.6	46.3	62.0	72.4	86.5	113
KGM50	50	5.00	6.08	9.38	14.7	19.5	22.5	29.5	37.2	44.2	47.3	49.5	57.8	77.5	90.5	108	141
KGM60	60	6.00	7.30	11.3	17.6	23.4	27.0	35.4	44.6	53.0	56.8	59.4	69.4	93.0	109	130	169
KGM70	70	7.00	8.52	13.1	20.6	27.3	31.5	41.3	52.0	61.8	66.3	69.3	81.0	109	127	151	197
KGM80	80	8.00	9.73	15.0	23.5	31.2	36.0	47.2	59.5	70.7	75.7	79.2	92.5	124	145	173	225
KGM90	90	9.00	11.0	16.9	26.5	35.1	40.5	53.1	66.9	79.5	85.2	89.1	104	140	163	195	254
KGM95	95	9.50	11.6	17.8	27.9	37.1	42.8	56.1	70.6	83.9	89.9	94.1	110	147	172	206	268
KGM100	100	10.0	12.2	18.8	29.4	39.0	45.0	59.0	74.3	88.3	94.7	99.0	116	155	181	216	282
KGM110	110	11.0	13.4	20.6	32.3	42.9	49.5	64.9	81.8	97.2	104	109	127	171	199	238	310
KGM120	120	12.0	14.6	22.5	35.3	46.8	54.0	70.8	89.2	106	114	119	139	186	217	260	338
KGM125	125	12.5	15.2	23.5	36.8	48.8	56.3	73.8	92.9	110	118	124	145	194	226	270	352
KGM130	130	13.0	15.8	24.4	38.2	50.7	58.5	76.7	96.6	115	123	129	150	202	235	281	366
KGM140	140	14.0	17.0	26.3	41.2	54.6	63.0	82.6	104	124	133	139	162	217	253	303	394
KGM150	150	15.0	18.3	28.2	44.1	58.5	67.5	88.5	112	133	142	149	174	233	272	325	423
KGM160	160	16.0	19.5	30.0	47.0	62.4	72.0	94.4	119	141	151	158	185	248	290	346	451
KGM170	170	17.0	20.7	31.9	50.0	66.3	76.5	100	126	150	161	168	197	264	308	368	479
KGM180	180	18.0	21.9	33.8	52.9	70.2	81.0	106	134	159	170	178	208	279	326	389	507
KGM190	190	19.0	23.1	35.7	55.9	74.1	85.5	112	141	168	180	188	220	295	344	411	535
KGM200	200	20.0	24.3	37.5	58.8	78.0	90.0	118	149	177	189	198	231	310	362	433	563
KGM210	210	21.0	25.6	39.4	61.7	81.9	94.5	124	156	186	199	208	243	326	380	454	592
KGM220	220	22.0	26.8	41.3	64.7	85.8	99.0	130	164	194	208	218	254	341	398	476	620
KGM230	230	23.0	28.0	43.2	67.6	89.7	104	136	171	203	218	228	266	357	416	498	648
KGM240	240	24.0	29.2	45.0	70.6	93.6	108	142	178	212	227	238	278	372	434	519	676
KGM250	250	25.0	30.4	46.9	73.5	97.5	113	148	186	221	237	248	289	388	453	541	704
KGM260	260	26.0	31.6	48.8	76.4	101	117	153	193	230	246	257	301	403	471	562	732
KGM270	270	27.0	32.9	50.7	79.4	105	122	159	201	239	256	267	312	419	489	584	761
KGM280	280	28.0	34.1	52.5	82.3	109	126	165	208	247	265	277	324	434	507	606	789
KGM290	290	29.0	35.3	54.4	85.3	113	131	171	216	256	275	287	335	450	525	627	817
KGM300	300	30.0	36.5	56.3	88.2	117	135	177	223	265	284	297	347	465	543	649	845
KGM310	310	31.0	37.7	58.2	91.1	121	140	183	230	274	293	307	359	481	561	671	873

Electrical Properties

KGM series



Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM320	320	32.0	38.9	60.1	94.1	125	144	189	238	283	303	317	370	496	579	692	901
KGM330	330	33.0	40.1	61.9	97.0	129	149	195	245	292	312	327	382	512	597	714	929
KGM340	340	34.0	41.4	63.8	100	133	153	201	253	300	322	337	393	527	615	736	958
KGM350	350	35.0	42.6	65.7	103	137	158	207	260	309	331	347	405	543	634	757	986
KGM360	360	36.0	43.8	67.6	106	140	162	212	268	318	341	356	416	558	652	779	1014
KGM370	370	37.0	45.0	69.4	109	144	167	218	275	327	350	366	428	574	670	800	1042
KGM380	380	38.0	46.2	71.3	112	148	171	224	282	336	360	376	440	589	688	822	1070
KGM390	390	39.0	47.4	73.2	115	152	176	230	290	345	369	386	451	605	706	844	1099
KGM400	400	40.0	48.7	75.1	118	156	180	236	297	353	379	396	463	620	724	865	1127
KGM410	410	41.0	49.9	76.9	121	160	185	242	305	362	388	406	474	636	742	887	1155
KGM420	420	42.0	51.1	78.8	123	164	189	248	312	371	398	416	486	651	760	909	1183
KGM430	430	43.0	52.3	80.7	126	168	194	254	320	380	407	426	497	667	778	930	1211
KGM440	440	44.0	53.5	82.6	129	172	198	260	327	389	417	436	509	682	796	952	1239
KGM450	450	45.0	54.7	84.5	132	176	203	266	335	398	426	446	521	698	815	973	1268
KGM460	460	46.0	56.0	86.3	135	179	207	271	342	406	435	455	532	713	833	995	1296
KGM470	470	47.0	57.2	88.2	138	183	212	277	349	415	445	465	544	729	851	1017	1324
KGM480	480	48.0	58.4	90.1	141	187	216	283	357	424	454	475	555	744	869	1038	1352
KGM490	490	49.0	59.6	92.0	144	191	221	289	364	433	464	485	567	760	887	1060	1380
KGM500	500	50.0	60.8	93.8	147	195	225	295	372	442	473	495	578	775	905	1082	1408
KGM510	510	51.0	62.0	95.7	150	199	230	301	379	451	483	505	590	791	923	1103	1437
KGM520	520	52.0	63.3	97.6	153	203	234	307	387	459	492	515	601	806	941	1125	1465
KGM530	530	53.0	64.5	99.5	156	207	239	313	394	468	502	525	613	822	959	1147	1493
KGM540	540	54.0	65.7	101	159	211	243	319	401	477	511	535	625	837	977	1168	1521
KGM550	550	55.0	66.9	103	162	215	248	325	409	486	521	545	636	853	995	1190	1549
KGM560	560	56.0	68.1	105	165	218	252	330	416	495	530	554	648	868	1014	1211	1577
KGM570	570	57.0	69.3	107	168	222	257	336	424	504	540	564	659	884	1032	1233	1606
KGM580	580	58.0	70.6	109	171	226	261	342	431	512	549	574	671	899	1050	1255	1634
KGM590	590	59.0	71.8	111	173	230	266	348	439	521	559	584	682	915	1068	1276	1662
KGM600	600	60.0	73.0	113	176	234	270	354	446	530	568	594	694	930	1086	1298	1690

Electrical Properties

KGM series



Discharge performance data after being fully charged by constant current according to IEC62259 (Data is only for the selection of reference, without assessment)

Available current under 20°C ± 5°C

Final voltage 1.10V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM30	30	3.15	3.75	5.80	9.28	13.4	16.4	21.4	26.9	30.3	32.3	34.3	40.1	55.5	62.9	74.5	94.5
KGM40	40	4.20	5.00	7.73	12.4	17.9	21.9	28.5	35.9	40.4	43.1	45.7	53.5	74.0	83.9	99.3	126
KGM50	50	5.25	6.25	9.67	15.5	22.3	27.3	35.7	44.8	50.5	53.8	57.2	66.8	92.5	105	124	158
KGM60	60	6.30	7.50	11.6	18.6	26.8	32.8	42.8	53.8	60.6	64.6	68.6	80.2	111	126	149	189
KGM70	70	7.35	8.75	13.5	21.7	31.3	38.3	49.9	62.8	70.7	75.4	80.0	93.6	130	147	174	221
KGM80	80	8.40	10.0	15.5	24.7	35.7	43.7	57.1	71.7	80.8	86.1	91.5	107	148	168	199	252
KGM90	90	9.45	11.3	17.4	27.8	40.2	49.2	64.2	80.7	90.9	96.9	103	120	167	189	224	284
KGM95	95	9.98	11.9	18.4	29.4	42.4	51.9	67.8	85.2	96.0	102	109	127	176	199	236	299
KGM100	100	10.5	12.5	19.3	30.9	44.7	54.7	71.3	89.7	101	108	114	134	185	210	248	315
KGM110	110	11.6	13.8	21.3	34.0	49.1	60.1	78.5	98.6	111	118	126	147	204	231	273	347
KGM120	120	12.6	15.0	23.2	37.1	53.6	65.6	85.6	108	121	129	137	160	222	252	298	378
KGM125	125	13.1	15.6	24.2	38.7	55.8	68.3	89.2	112	126	135	143	167	231	262	310	394
KGM130	130	13.7	16.3	25.1	40.2	58.1	71.1	92.7	117	131	140	149	174	241	273	323	410
KGM140	140	14.7	17.5	27.1	43.3	62.5	76.5	99.9	126	141	151	160	187	259	294	348	441
KGM150	150	15.8	18.8	29.0	46.4	67.0	82.0	107	135	152	162	172	201	278	315	373	473
KGM160	160	16.8	20.0	30.9	49.5	71.5	87.5	114	143	162	172	183	214	296	335	397	504
KGM170	170	17.9	21.3	32.9	52.6	75.9	92.9	121	152	172	183	194	227	315	356	422	536
KGM180	180	18.9	22.5	34.8	55.7	80.4	98.4	128	161	182	194	206	241	333	377	447	567
KGM190	190	20.0	23.8	36.7	58.8	84.9	104	136	170	192	205	217	254	352	398	472	599
KGM200	200	21.0	25.0	38.7	61.9	89.3	109	143	179	202	215	229	267	370	419	497	630
KGM210	210	22.1	26.3	40.6	65.0	93.8	115	150	188	212	226	240	281	389	440	522	661
KGM220	220	23.1	27.5	42.5	68.1	98.3	120	157	197	222	237	252	294	407	461	546	693
KGM230	230	24.2	28.8	44.5	71.1	103	126	164	206	232	248	263	307	426	482	571	724
KGM240	240	25.2	30.0	46.4	74.2	107	131	171	215	242	258	274	321	444	503	596	756
KGM250	250	26.3	31.3	48.3	77.3	112	137	178	224	253	269	286	334	462	524	621	787
KGM260	260	27.3	32.5	50.3	80.4	116	142	185	233	263	280	297	348	481	545	646	819
KGM270	270	28.4	33.8	52.2	83.5	121	148	193	242	273	291	309	361	499	566	670	850
KGM280	280	29.4	35.0	54.1	86.6	125	153	200	251	283	301	320	374	518	587	695	882
KGM290	290	30.5	36.3	56.1	89.7	130	159	207	260	293	312	332	388	536	608	720	913
KGM300	300	31.5	37.5	58.0	92.8	134	164	214	269	303	323	343	401	555	629	745	945
KGM310	310	32.6	38.8	59.9	95.9	138	169	221	278	313	334	354	414	573	650	770	976

Electrical Properties

KGM series



Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM320	320	33.6	40.0	61.9	99.0	143	175	228	287	323	345	366	428	592	671	795	1008
KGM330	330	34.7	41.3	63.8	102	147	180	235	296	333	355	377	441	610	692	819	1040
KGM340	340	35.7	42.5	65.7	105	152	186	243	305	343	366	389	454	629	713	844	1071
KGM350	350	36.8	43.8	67.7	108	156	191	250	314	353	377	400	468	647	734	869	1103
KGM360	360	37.8	45.0	69.6	111	161	197	257	323	364	388	412	481	666	755	894	1134
KGM370	370	38.9	46.3	71.5	114	165	202	264	332	374	398	423	495	684	776	919	1166
KGM380	380	39.9	47.5	73.5	118	170	208	271	341	384	409	434	508	703	797	944	1197
KGM390	390	41.0	48.8	75.4	121	174	213	278	350	394	420	446	521	721	818	968	1229
KGM400	400	42.0	50.0	77.3	124	179	219	285	359	404	431	457	535	740	839	993	1260
KGM410	410	43.1	51.3	79.3	127	183	224	292	368	414	441	469	548	758	860	1018	1292
KGM420	420	44.1	52.5	81.2	130	188	230	300	377	424	452	480	561	777	881	1043	1323
KGM430	430	45.2	53.8	83.1	133	192	235	307	386	434	463	492	575	795	902	1068	1355
KGM440	440	46.2	55.0	85.1	136	197	241	314	395	444	474	503	588	814	923	1093	1386
KGM450	450	47.3	56.3	87.0	139	201	246	321	403	454	485	514	601	832	943	1118	1418
KGM460	460	48.3	57.5	88.9	142	205	251	328	412	465	495	526	615	851	964	1142	1449
KGM470	470	49.4	58.8	90.9	145	210	257	335	421	475	506	537	628	869	985	1167	1481
KGM480	480	50.4	60.0	92.8	148	214	262	342	430	485	517	549	642	888	1006	1192	1512
KGM490	490	51.5	61.3	94.7	152	219	268	350	439	495	528	560	655	906	1027	1217	1544
KGM500	500	52.5	62.5	96.7	155	223	273	357	448	505	538	572	668	925	1048	1242	1575
KGM510	510	53.6	63.8	98.6	158	228	279	364	457	515	549	583	682	943	1069	1267	1607
KGM520	520	54.6	65.0	101	161	232	284	371	466	525	560	595	695	962	1090	1291	1638
KGM530	530	55.7	66.3	102	164	237	290	378	475	535	571	606	708	980	1111	1316	1670
KGM540	540	56.7	67.5	104	167	241	295	385	484	545	581	617	722	999	1132	1341	1701
KGM550	550	57.8	68.8	106	170	246	301	392	493	555	592	629	735	1018	1153	1366	1733
KGM560	560	58.8	70.0	108	173	250	306	399	502	566	603	640	749	1036	1174	1391	1764
KGM570	570	59.8	71.3	110	176	255	312	407	511	576	614	652	762	1055	1195	1416	1796
KGM580	580	60.9	72.5	112	179	259	317	414	520	586	624	663	775	1073	1216	1440	1827
KGM590	590	61.9	73.8	114	183	264	323	421	529	596	635	675	789	1092	1237	1465	1859
KGM600	600	63.0	75.0	116	186	268	328	428	538	606	646	686	802	1110	1258	1490	1890

Electrical Properties

KGM series



Discharge performance data after being fully charged by constant current according to IEC62259 (Data is only for the selection of reference, without assessment)

Available current under 20°C ± 5°C

Final voltage 1.05V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM30	30	3.30	3.94	6.00	9.38	14.0	18.0	24.7	31.3	37.0	39.5	41.9	49.5	66.5	75.0	87.5	111
KGM40	40	4.40	5.25	8.00	12.5	18.7	24.0	32.9	41.7	49.3	52.7	55.9	66.0	88.7	100	117	148
KGM50	50	5.50	6.57	10.0	15.6	23.3	30.0	41.2	52.2	61.7	65.8	69.8	82.5	111	125	146	185
KGM60	60	6.60	7.88	12.0	18.8	28.0	36.0	49.4	62.6	74.0	79.0	83.8	99.0	133	150	175	222
KGM70	70	7.70	9.19	14.0	21.9	32.7	42.0	57.6	73.0	86.3	92.2	97.8	116	155	175	204	259
KGM80	80	8.80	10.5	16.0	25.0	37.3	48.0	65.9	83.5	98.7	105	112	132	177	200	233	296
KGM90	90	9.90	11.8	18.0	28.1	42.0	54.0	74.1	93.9	111	119	126	149	200	225	263	333
KGM95	95	10.5	12.5	19.0	29.7	44.3	57.0	78.2	99.1	117	125	133	157	211	238	277	352
KGM100	100	11.0	13.1	20.0	31.3	46.7	60.0	82.3	104	123	132	140	165	222	250	292	370
KGM110	110	12.1	14.4	22.0	34.4	51.3	66.0	90.6	115	136	145	154	182	244	275	321	407
KGM120	120	13.2	15.8	24.0	37.5	56.0	72.0	98.8	125	148	158	168	198	266	300	350	444
KGM 125	125	13.8	16.4	25.0	39.1	58.3	75.0	103	130	154	165	175	206	277	313	365	463
KGM130	130	14.3	17.1	26.0	40.6	60.7	78.0	107	136	160	171	182	215	288	325	379	481
KGM140	140	15.4	18.4	28.0	43.8	65.3	84.0	115	146	173	184	196	231	310	350	408	518
KGM150	150	16.5	19.7	30.0	46.9	70.0	90.0	124	157	185	198	210	248	333	375	438	555
KGM160	160	17.6	21.0	32.0	50.0	74.7	96.0	132	167	197	211	223	264	355	400	467	592
KGM170	170	18.7	22.3	34.0	53.2	79.3	102	140	177	210	224	237	281	377	425	496	629
KGM180	180	19.8	23.6	36.0	56.3	84.0	108	148	188	222	237	251	297	399	450	525	666
KGM190	190	20.9	25.0	38.0	59.4	88.7	114	156	198	234	250	265	314	421	475	554	703
KGM200	200	22.0	26.3	40.0	62.5	93.3	120	165	209	247	263	279	330	443	500	583	740
KGM210	210	23.1	27.6	42.0	65.7	98.0	126	173	219	259	277	293	347	466	525	613	777
KGM220	220	24.2	28.9	44.0	68.8	103	132	181	230	271	290	307	363	488	550	642	814
KGM230	230	25.3	30.2	46.0	71.9	107	138	189	240	284	303	321	380	510	575	671	851
KGM240	240	26.4	31.5	48.0	75.0	112	144	198	250	296	316	335	396	532	600	700	888
KGM250	250	27.5	32.8	50.0	78.2	117	150	206	261	308	329	349	413	554	625	729	925
KGM260	260	28.6	34.1	52.0	81.3	121	156	214	271	321	342	363	429	576	650	758	962
KGM270	270	29.7	35.5	54.0	84.4	126	162	222	282	333	356	377	446	599	675	787	999
KGM280	280	30.8	36.8	56.0	87.5	131	168	231	292	345	369	391	462	621	700	817	1036
KGM290	290	31.9	38.1	58.0	90.7	135	174	239	303	358	382	405	479	643	725	846	1073
KGM300	300	33.0	39.4	60.0	93.8	140	180	247	313	370	395	419	495	665	750	875	1110
KGM310	310	34.1	40.7	62.0	96.9	145	186	255	323	382	408	433	512	687	775	904	1147

Electrical Properties

KGM series



Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM320	320	35.2	42.0	64.0	100	149	192	263	334	395	421	447	528	709	800	933	1184
KGM330	330	36.3	43.3	66.0	103	154	198	272	344	407	435	461	545	732	825	962	1221
KGM340	340	37.4	44.7	68.0	106	159	204	280	355	419	448	475	561	754	850	992	1258
KGM350	350	38.5	46.0	70.0	109	163	210	288	365	432	461	489	578	776	875	1021	1295
KGM360	360	39.6	47.3	72.0	113	168	216	296	376	444	474	503	594	798	900	1050	1332
KGM370	370	40.7	48.6	74.0	116	173	222	305	386	456	487	517	611	820	925	1079	1369
KGM380	380	41.8	49.9	76.0	119	177	228	313	396	469	500	531	627	842	950	1108	1406
KGM390	390	42.9	51.2	78.0	122	182	234	321	407	481	514	545	644	864	975	1138	1443
KGM400	400	44.0	52.5	80.0	125	187	240	329	417	493	527	559	660	887	1000	1167	1480
KGM410	410	45.1	53.8	82.0	128	191	246	338	428	506	540	573	677	909	1025	1196	1517
KGM420	420	46.2	55.2	84.0	131	196	252	346	438	518	553	587	693	931	1050	1225	1554
KGM430	430	47.3	56.5	86.0	134	201	258	354	449	530	566	601	710	953	1075	1254	1591
KGM440	440	48.4	57.8	88.0	138	205	264	362	459	543	579	615	726	975	1100	1283	1628
KGM450	450	49.5	59.1	90.0	141	210	270	371	470	555	593	628	743	997	1125	1313	1665
KGM460	460	50.6	60.4	92.0	144	215	276	379	480	567	606	642	759	1020	1150	1342	1702
KGM470	470	51.7	61.7	94.0	147	219	282	387	490	580	619	656	776	1042	1175	1371	1739
KGM480	480	52.8	63.0	96.0	150	224	288	395	501	592	632	670	792	1064	1200	1400	1776
KGM490	490	53.9	64.4	98.0	153	229	294	403	511	604	645	684	809	1086	1225	1429	1813
KGM500	500	55.0	65.7	100	156	233	300	412	522	617	658	698	825	1108	1250	1458	1850
KGM510	510	56.1	67.0	102	159	238	306	420	532	629	672	712	842	1131	1275	1488	1887
KGM520	520	57.2	68.3	104	163	243	312	428	543	641	685	726	858	1153	1300	1517	1924
KGM530	530	58.3	69.6	106	166	247	318	436	553	654	698	740	875	1175	1325	1546	1961
KGM540	540	59.4	70.9	108	169	252	324	445	563	666	711	754	891	1197	1350	1575	1998
KGM550	550	60.5	72.2	110	172	257	330	453	574	678	724	768	908	1219	1375	1604	2035
KGM560	560	61.6	73.5	112	175	261	336	461	584	691	737	782	924	1241	1400	1633	2072
KGM570	570	62.7	74.9	114	178	266	342	469	595	703	750	796	941	1264	1425	1663	2109
KGM580	580	63.8	76.2	116	181	271	348	478	605	715	764	810	957	1286	1450	1692	2146
KGM590	590	64.9	77.5	118	184	275	354	486	616	728	777	824	974	1308	1475	1721	2183
KGM600	600	66.0	78.8	120	188	280	360	494	626	740	790	838	990	1330	1500	1750	2220

Electrical Properties

KGM series



Discharge performance data after being fully charged by constant current according to IEC62259 (Data is only for the selection of reference, without assessment)

Available current under 20°C ± 5°C

Final voltage 1.00V/cell

Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM30	30	3.45	4.20	6.60	9.75	14.6	19.0	26.3	36.6	43.2	47.2	51.1	57.2	75.9	83.9	98.9	120
KGM40	40	4.60	5.60	8.80	13.0	19.5	25.3	35.1	48.8	57.6	62.9	68.1	76.3	101	112	132	160
KGM50	50	5.75	7.00	11.0	16.3	24.3	31.7	43.8	61.0	72.0	78.7	85.2	95.3	127	140	165	200
KGM60	60	6.90	8.40	13.2	19.5	29.2	38.0	52.6	73.2	86.4	94.4	102	114	152	168	198	240
KGM70	70	8.05	9.80	15.4	22.8	34.1	44.3	61.4	85.4	101	110	119	133	177	196	231	280
KGM80	80	9.20	11.2	17.6	26.0	38.9	50.7	70.1	97.6	115	126	136	153	202	224	264	320
KGM90	90	10.4	12.6	19.8	29.3	43.8	57.0	78.9	110	130	142	153	172	228	252	297	360
KGM95	95	10.9	13.3	20.9	30.9	46.2	60.2	83.3	116	137	149	162	181	240	266	313	380
KGM100	100	11.5	14.0	22.0	32.5	48.7	63.3	87.7	122	144	157	170	191	253	280	330	400
KGM110	110	12.7	15.4	24.2	35.8	53.5	69.7	96.4	134	158	173	187	210	278	308	363	440
KGM120	120	13.8	16.8	26.4	39.0	58.4	76.0	105	146	173	189	204	229	304	336	396	480
KGM125	125	14.4	17.5	27.5	40.6	60.8	79.2	110	153	180	197	213	238	316	350	412	500
KGM130	130	15.0	18.2	28.6	42.3	63.3	82.3	114	159	187	205	221	248	329	364	429	520
KGM140	140	16.1	19.6	30.8	45.5	68.1	88.7	123	171	202	220	238	267	354	392	462	560
KGM150	150	17.3	21.0	33.0	48.8	73.0	95.0	132	183	216	236	256	286	380	420	495	600
KGM160	160	18.4	22.4	35.2	52.0	77.9	101	140	195	230	252	273	305	405	447	527	640
KGM170	170	19.6	23.8	37.4	55.3	82.7	108	149	207	245	267	290	324	430	475	560	680
KGM180	180	20.7	25.2	39.6	58.5	87.6	114	158	220	259	283	307	343	455	503	593	720
KGM190	190	21.9	26.6	41.8	61.8	92.5	120	167	232	274	299	324	362	481	531	626	760
KGM200	200	23.0	28.0	44.0	65.0	97.3	127	175	244	288	315	341	381	506	559	659	800
KGM210	210	24.2	29.4	46.2	68.3	102	133	184	256	302	330	358	400	531	587	692	840
KGM220	220	25.3	30.8	48.4	71.5	107	139	193	268	317	346	375	419	557	615	725	880
KGM230	230	26.5	32.2	50.6	74.8	112	146	202	281	331	362	392	439	582	643	758	920
KGM240	240	27.6	33.6	52.8	78.0	117	152	210	293	346	378	409	458	607	671	791	960
KGM250	250	28.8	35.0	55.0	81.3	122	158	219	305	360	393	426	477	633	699	824	1000
KGM260	260	29.9	36.4	57.2	84.5	127	165	228	317	374	409	443	496	658	727	857	1040
KGM270	270	31.1	37.8	59.4	87.8	131	171	237	329	389	425	460	515	683	755	890	1080
KGM280	280	32.2	39.2	61.6	91.0	136	177	245	342	403	441	477	534	708	783	923	1120
KGM290	290	33.4	40.6	63.8	94.3	141	184	254	354	418	456	494	553	734	811	956	1160
KGM300	300	34.5	42.0	66.0	97.5	146	190	263	366	432	472	511	572	759	839	989	1200
KGM310	310	35.7	43.4	68.2	101	151	196	272	378	446	488	528	591	784	867	1022	1240

Electrical Properties

KGM series



Models	I _t Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
KGM320	320	36.8	44.8	70.4	104	156	203	281	390	461	503	545	610	810	895	1055	1280
KGM330	330	38.0	46.2	72.6	107	161	209	289	403	475	519	562	629	835	923	1088	1320
KGM340	340	39.1	47.6	74.8	111	165	215	298	415	490	535	579	648	860	951	1121	1360
KGM350	350	40.3	49.0	77.0	114	170	222	307	427	504	551	596	667	886	979	1154	1400
KGM360	360	41.4	50.4	79.2	117	175	228	316	439	518	566	613	686	911	1007	1187	1440
KGM370	370	42.6	51.8	81.4	120	180	234	324	451	533	582	630	705	936	1035	1220	1480
KGM380	380	43.7	53.2	83.6	124	185	241	333	464	547	598	647	725	961	1063	1253	1520
KGM390	390	44.9	54.6	85.8	127	190	247	342	476	562	614	664	744	987	1091	1286	1560
KGM400	400	46.0	56.0	88.0	130	195	253	351	488	576	629	681	763	1012	1119	1319	1600
KGM410	410	47.2	57.4	90.2	133	200	260	359	500	590	645	698	782	1037	1147	1352	1640
KGM420	420	48.3	58.8	92.4	137	204	266	368	512	605	661	715	801	1063	1175	1385	1680
KGM430	430	49.4	60.2	94.6	140	209	272	377	525	619	677	732	820	1088	1203	1418	1720
KGM440	440	50.6	61.6	96.8	143	214	279	386	537	634	692	749	839	1113	1231	1451	1760
KGM450	450	51.8	63.0	99.0	146	219	285	395	549	648	708	767	858	1139	1259	1484	1800
KGM460	460	52.9	64.4	101	150	224	291	403	561	662	724	784	877	1164	1286	1516	1840
KGM470	470	54.0	65.8	103	153	229	298	412	573	677	739	801	896	1189	1314	1549	1880
KGM480	480	55.2	67.2	106	156	234	304	421	586	691	755	818	915	1214	1342	1582	1920
KGM490	490	56.4	68.6	108	159	238	310	430	598	706	771	835	934	1240	1370	1615	1960
KGM500	500	57.5	70.0	110	163	243	317	438	610	720	787	852	953	1265	1398	1648	2000
KGM510	510	58.7	71.4	112	166	248	323	447	622	734	802	869	972	1290	1426	1681	2040
KGM520	520	59.8	72.8	114	169	253	329	456	634	749	818	886	991	1316	1454	1714	2080
KGM530	530	60.9	74.2	117	172	258	336	465	647	763	834	903	1011	1341	1482	1747	2120
KGM540	540	62.1	75.6	119	176	263	342	473	659	778	850	920	1030	1366	1510	1780	2160
KGM550	550	63.2	77.0	121	179	268	348	482	671	792	865	937	1049	1392	1538	1813	2200
KGM560	560	64.4	78.4	123	182	273	355	491	683	806	881	954	1068	1417	1566	1846	2240
KGM570	570	65.5	79.8	125	185	277	361	500	695	821	897	971	1087	1442	1594	1879	2280
KGM580	580	66.7	81.2	128	189	282	367	508	708	835	913	988	1106	1467	1622	1912	2320
KGM590	590	67.8	82.6	130	192	287	374	517	720	850	928	1005	1125	1493	1650	1945	2360
KGM600	600	69.0	84.0	132	195	292	380	526	732	864	944	1022	1144	1518	1678	1978	2400



Power Management Instruments

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