



Low pressure flame arresting vent

Niederdruckventil – flammenhemmend

GAZ® safety terminal

Redundant leak protection minimizes carbonate formation.

GAZ® Sicherheitspol

Zweifachdichtung minimiert Karbonatisierung.

Electrode edge

Connected to terminal by screwing or welding providing high mechanical stability.

Elektrodenfahne

Mit Polbolzen verschraubt oder verschweißt. Stellt hohe mechanische Stabilität sicher.

Electrode frame

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

Elektrodenrahmen

Bestehend aus Elektrodenfahne und Seitenstegen. Verschließt die Platten und dient der Stromableitung.

Horizontal pockets

Formed by perforated steel strips containing the active material.

Horizontale Taschenplatten

Perforiertes Stahlband umschließt die Aktivmasse.

Fleece separator

Special fleece separator insulates the plates and improves the internal recombination.

Vliesseparator

Spezieller Vliesseparator isoliert die Platten und fördert die interne Rekombination.



Technical Specifications / Technische Kenndaten

Cell type Zelltyp	Nominal Capacity C ₅ [Ah] at 1.00 V Nennkapazität C ₅ [Ah] bei 1,00 V	Dimensions / Abmessungen [mm]				Terminals / Pole		Total Weight / Gesamtgewicht [kg]
		l	w	h	h ₁	Type / Art M = Nut / Mutter S = Screw / Schraube	Size / Größe	
KGL 12 P	12	46	85	167	193	M	2 x M 10	1.0
KGL 20 P	20	46	85	237	263	M	2 x M 10	1.4
KGL 25 P	25	46	85	237	263	M	2 x M 10	1.5
KGL 35 P	35	46	85	237	263	M	2 x M 10	1.6
KGL 45 P	45	85	85	237	263	M	2 x M 10	2.7
KGL 50 P	50	85	85	237	263	M	2 x M 10	2.8
KGL 60 P	60	85	85	237	263	M	2 x M 10	2.9
KGL 70 P	70	53	134	364	394	S	2 x M 8	4.9
KGL 80 P	80	53	134	364	394	S	2 x M 8	5.0
KGL 100 P	100	69	134	364	394	S	2 x M 8	6.0
KGL 120 P	120	69	134	364	394	S	2 x M 8	6.3
KGL 135 P	135	70	164	364	394	S	2 x M 8	7.7
KGL 155 P	155	70	164	364	394	S	2 x M 8	7.8
KGL 175 P	175	108	164	364	394	S	2 x M 8	10.4
KGL 205 P	205	108	164	364	394	S	2 x M 8	10.8
KGL 225 P	225	108	164	364	394	S	2 x M 8	11.1
KGL 245 P	245	108	164	364	394	S	2 x M 8	11.6
KGL 275 P	275	108	164	364	394	S	2 x M 8	12.2
KGL 300 P	300	164	158	364	394	S	2 x M 10	16.2
KGL 330 P	330	164	158	364	394	S	2 x M 10	16.5
KGL 350 P	350	164	158	364	394	S	2 x M 10	17.0
KGL 375 P	375	164	158	364	394	S	2 x M 10	17.5
KGL 390 P	390	164	158	364	394	S	2 x M 10	18.0
KGL 420 P	420	164	158	364	394	S	2 x M 10	18.5
KGL 440 P	440	164	158	364	394	S	2 x M 10	18.9
KGL 500 P	500	176	246	382	410	S	4 x M 10	27.3
KGL 555 P	555	176	246	382	410	S	4 x M 10	28.3
KGL 585 P	585	176	246	382	410	S	4 x M 10	28.7
KGL 610 P	610	176	246	382	410	S	4 x M 10	29.3
KGL 645 P	645	176	246	382	410	S	4 x M 10	29.8
KGL 665 P	665	176	368	382	420	S	6 x M 10	40.7
KGL 705 P	705	176	368	382	420	S	6 x M 10	41.4
KGL 750 P	750	176	368	382	420	S	6 x M 10	41.9
KGL 795 P	795	176	368	382	420	S	6 x M 10	42.6
KGL 835 P	835	176	368	382	420	S	6 x M 10	43.1
KGL 890 P	890	176	448	382	420	S	8 x M 10	49.2
KGL 990 P	990	176	448	382	420	S	8 x M 10	53.7
KGL 1110 P	1110	176	448	382	420	S	8 x M 10	56.0
KGL 1260 P	1260	176	558	382	420	S	10 x M 10	63.8
KGL 1320 P	1320	176	558	382	420	S	10 x M 10	65.8
KGL 1390 P	1390	176	558	382	420	S	10 x M 10	67.8
KGL 1460 P	1460	176	558	382	420	S	10 x M 10	69.4
KGL 1570 P	1570	176	558	382	420	S	10 x M 10	70.6

* rated capacity acc. to IEC 62259, point 3.3 / Bemessungskapazität entsprechend IEC 62259, Punkt 3.3

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.15 V

Cell type / Zelltyp	Discharge current / Entladestrom [A]														
	5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h
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	13.10	12.40	11.50	11.10	9.40	8.10	7.10	5.71	4.78	4.52	3.80	3.29	2.91	2.61	2.37
KGL 35 P	16.40	15.50	14.40	13.90	11.70	10.10	8.90	7.10	6.40	6.00	5.05	4.37	3.86	3.47	3.15
KGL 45 P	23.10	20.70	19.20	18.50	15.60	13.50	11.80	9.50	8.50	8.00	6.73	5.83	5.15	4.62	4.20
KGL 50 P	30.30	27.20	25.20	24.30	20.00	17.70	15.60	12.40	9.80	9.10	7.66	6.63	5.86	5.26	4.78
KGL 60 P	38.00	34.00	31.00	30.00	24.30	21.90	19.40	15.10	12.10	10.80	9.09	7.87	6.95	6.24	5.67
KGL 70 P	38.00	37.00	35.00	34.00	27.00	23.40	21.00	16.30	13.80	12.80	10.80	9.30	8.20	7.40	6.70
KGL 80 P	44.00	43.00	40.00	39.00	31.00	27.10	24.20	18.80	15.60	14.50	12.20	10.60	9.30	8.40	7.60
KGL 100 P	53.00	51.00	49.00	46.00	37.00	32.50	29.10	22.50	19.20	17.70	14.90	12.90	11.40	10.20	9.30
KGL 120 P	65.00	63.00	59.00	57.00	46.00	39.70	35.60	27.50	23.50	21.80	18.30	15.90	14.00	12.60	11.40
KGL 135 P	74.00	67.00	65.00	64.00	50.00	44.00	39.20	32.40	26.70	24.50	20.60	17.90	15.80	14.20	12.90
KGL 155 P	82.00	76.00	71.00	66.00	56.00	49.00	43.90	36.20	30.70	28.20	23.70	20.50	18.20	16.30	14.80
KGL 175 P	94.00	86.00	81.00	75.00	65.00	56.00	50.00	41.40	34.60	31.80	26.80	23.20	20.50	18.40	16.70
KGL 205 P	108.00	100.00	94.00	87.00	75.00	65.00	58.00	47.90	40.60	37.30	31.40	27.20	24.00	21.60	19.60
KGL 225 P	120.00	111.00	104.00	97.00	82.00	72.00	64.00	53.00	44.50	40.90	34.40	29.80	26.30	23.60	21.50
KGL 245 P	127.00	117.00	110.00	102.00	87.00	79.00	70.00	55.00	48.50	44.50	37.50	32.40	28.60	25.70	23.40
KGL 275 P	140.00	130.00	122.00	113.00	97.00	87.00	78.00	61.00	54.40	50.00	42.10	36.40	32.20	28.90	26.30
KGL 300 P	152.00	140.00	131.00	122.00	105.00	94.00	84.00	66.00	59.50	54.60	46.00	39.80	35.10	31.50	28.70
KGL 330 P	174.00	164.00	153.00	145.00	124.00	114.00	99.00	77.00	65.60	60.00	50.50	43.70	38.60	34.70	31.50
KGL 350 P	186.00	175.00	162.00	155.00	133.00	122.00	106.00	82.00	69.50	63.60	53.50	46.30	40.90	36.70	33.40
KGL 375 P	197.00	186.00	173.00	165.00	141.00	130.00	112.00	87.00	74.50	68.20	57.40	49.70	43.90	39.40	35.80
KGL 390 P	206.00	194.00	181.00	171.00	147.00	136.00	117.00	91.00	77.50	70.90	59.70	51.70	45.60	41.00	37.20
KGL 420 P	221.00	208.00	194.00	184.00	157.00	145.00	125.00	97.00	83.50	76.40	64.30	55.70	49.20	44.10	40.10
KGL 440 P	227.00	213.00	198.00	189.00	162.00	149.00	128.00	102.00	87.40	80.00	67.30	58.30	51.50	46.20	42.00
KGL 500 P	337.00	306.00	277.00	248.00	205.00	192.00	180.00	135.00	107.00	90.00	76.00	66.00	58.00	52.00	47.00
KGL 555 P	374.00	340.00	308.00	276.00	228.00	213.00	200.00	150.00	119.00	100.00	84.00	73.00	64.00	58.00	52.00
KGL 585 P	394.00	358.00	324.00	290.00	239.00	224.00	210.00	158.00	125.00	105.00	88.00	77.00	68.00	61.00	55.00
KGL 610 P	412.00	374.00	339.00	303.00	251.00	235.00	220.00	165.00	131.00	110.00	93.00	81.00	71.00	64.00	57.00
KGL 645 P	434.00	394.00	357.00	320.00	264.00	247.00	232.00	174.00	138.00	116.00	97.00	84.00	75.00	67.00	61.00
KGL 665 P	449.00	408.00	369.00	331.00	273.00	256.00	240.00	180.00	143.00	120.00	101.00	87.00	77.00	69.00	63.00
KGL 705 P	475.00	431.00	390.00	349.00	289.00	270.00	254.00	190.00	151.00	127.00	107.00	92.00	82.00	73.00	66.00
KGL 750 P	506.00	459.00	416.00	372.00	308.00	288.00	270.00	203.00	161.00	135.00	114.00	98.00	87.00	78.00	71.00
KGL 795 P	535.00	486.00	440.00	394.00	325.00	305.00	286.00	214.00	170.00	143.00	120.00	104.00	92.00	82.00	75.00
KGL 835 P	562.00	510.00	462.00	413.00	342.00	320.00	300.00	225.00	178.00	150.00	126.00	109.00	97.00	87.00	79.00
KGL 890 P	599.00	544.00	492.00	441.00	364.00	341.00	320.00	240.00	190.00	160.00	134.00	117.00	103.00	92.00	84.00
KGL 990 P	667.00	605.00	548.00	491.00	405.00	380.00	356.00	267.00	212.00	178.00	150.00	130.00	115.00	103.00	93.00
KGL 1110 P	749.00	680.00	616.00	551.00	456.00	427.00	400.00	300.00	238.00	200.00	168.00	146.00	129.00	116.00	105.00
KGL 1260 P	848.00	771.00	697.00	625.00	516.00	483.00	453.00	340.00	269.00	227.00	190.00	165.00	146.00	131.00	119.00
KGL 1320 P	889.00	807.00	730.00	654.00	540.00	506.00	475.00	356.00	282.00	237.00	199.00	173.00	153.00	137.00	124.00
KGL 1390 P	936.00	850.00	769.00	689.00	569.00	533.00	500.00	375.00	297.00	250.00	210.00	182.00	161.00	144.00	131.00
KGL 1460 P	983.00	893.00	808.00	724.00	598.00	560.00	525.00	394.00	312.00	263.00	221.00	191.00	169.00	151.00	138.00
KGL 1570 P	1057.00	960.00	869.00	778.00	643.00	602.00	565.00	424.00	335.00	282.00	237.00	206.00	182.00	163.00	148.00

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.10 V

Cell type / Zelltyp	Discharge current / Entladestrom [A]														
	5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h
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	14.30	12.70	11.30	10.70	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	19.10	17.00	15.00	14.30	12.00	9.90	8.60	6.60	5.28	4.81	4.02	3.46	3.04	2.71	2.45
KGL 35 P	23.90	21.20	18.80	17.90	15.00	12.40	10.70	8.20	6.98	6.36	5.32	4.58	4.02	3.59	3.24
KGL 45 P	29.10	26.40	24.60	23.20	19.90	16.40	14.40	11.00	9.30	8.48	7.09	6.11	5.36	4.79	4.32
KGL 50 P	38.20	34.70	32.30	30.50	24.50	20.90	18.10	13.80	10.90	9.50	7.95	6.84	6.01	5.36	4.85
KGL 60 P	47.00	43.00	40.00	38.00	29.00	25.40	21.80	16.60	13.10	11.30	9.45	8.14	7.15	6.38	5.76
KGL 70 P	53.00	50.00	47.00	44.00	34.90	28.90	25.30	18.70	15.30	13.60	11.38	9.79	8.60	7.68	6.94
KGL 80 P	62.00	58.00	54.00	51.00	41.00	33.40	29.20	21.50	17.30	15.40	12.88	11.09	9.74	8.69	7.85
KGL 100 P	74.00	70.00	66.00	61.00	48.00	40.00	35.00	25.80	21.00	18.80	15.73	13.54	11.89	10.61	9.59
KGL 120 P	90.00	86.00	80.00	75.00	60.00	49.00	42.90	31.60	25.90	23.10	19.33	16.63	14.61	13.04	11.78
KGL 135 P	96.00	89.00	86.00	80.00	64.00	55.00	47.80	36.20	29.20	25.80	21.60	18.60	16.30	14.60	13.20
KGL 155 P	107.00	99.00	96.00	89.00	75.00	62.00	53.50	40.60	33.50	29.60	24.80	21.30	18.70	16.70	15.10
KGL 175 P	123.00	113.00	110.00	103.00	86.00	71.00	61.20	46.40	37.80	33.40	27.90	24.00	21.10	18.90	17.00
KGL 205 P	143.00	131.00	126.00	118.00	99.00	82.00	70.00	53.70	44.30	39.20	32.80	28.20	24.80	22.10	20.00
KGL 225 P	158.00	145.00	140.00	131.00	110.00	91.00	78.00	59.50	48.60	43.00	36.00	31.00	27.20	24.30	21.90
KGL 245 P	166.00	153.00	147.00	139.00	116.00	99.00	86.00	63.90	52.40	46.80	39.20	33.70	29.60	26.40	23.90
KGL 275 P	185.00	170.00	164.00	153.00	128.00	111.00	96.00	71.00	58.70	52.60	44.00	37.90	33.30	29.70	26.80
KGL 300 P	200.00	184.00	177.00	166.00	139.00	119.00	103.00	76.70	64.20	57.40	48.00	41.30	36.30	32.40	29.30
KGL 330 P	234.00	215.00	208.00	190.00	160.00	143.00	117.00	85.80	70.60	63.00	52.70	45.40	39.80	35.60	32.10
KGL 350 P	249.00	229.00	222.00	203.00	170.00	152.00	125.00	92.00	75.10	66.80	55.90	48.10	42.30	37.70	34.10
KGL 375 P	265.00	243.00	236.00	216.00	181.00	162.00	133.00	97.00	80.20	71.60	59.90	51.60	45.30	40.40	36.50
KGL 390 P	277.00	254.00	246.00	226.00	189.00	170.00	138.00	102.00	83.40	74.50	62.30	53.60	47.10	42.10	38.00
KGL 420 P	296.00	272.00	263.00	241.00	202.00	181.00	149.00	109.00	89.80	80.20	67.10	57.70	50.70	45.30	40.90
KGL 440 P	304.00	279.00	270.00	248.00	207.00	186.00	152.00	114.00	94.10	84.00	70.30	60.50	53.10	47.40	42.80
KGL 500 P	443.00	400.00	369.00	337.00	272.00	238.00	203.00	149.00	115.00	94.50	79.10	68.00	59.80	53.30	48.20

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.05 V

Cell type / Zelltyp	Discharge current / Entladestrom [A]														
	5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h
KGL 12 P	11.00	10.30	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	18.10	16.80	14.60	13.20	10.50	8.70	7.20	5.27	4.33	3.89	3.25	2.79	2.45	2.18	1.96
KGL 25 P	24.20	22.30	19.50	17.60	13.90	11.60	9.70	7.03	5.50	4.90	4.09	3.51	3.08	2.74	2.47
KGL 35 P	30.20	27.90	24.40	22.10	17.40	14.50	12.10	8.80	7.27	6.48	5.41	4.65	4.07	3.63	3.27
KGL 45 P	36.90	33.00	29.50	27.70	23.30	19.50	16.00	11.70	9.70	8.64	7.21	6.20	5.43	4.84	4.36
KGL 50 P	48.50	43.30	38.80	36.40	28.20	23.50	19.70	14.50	11.20	9.90	8.27	7.10	6.22	5.54	5.00
KGL 60 P	60.00	54.00	48.00	45.00	33.00	28.40	23.40	17.40	13.70	11.90	9.94	8.53	7.48	6.66	6.01
KGL 70 P	64.00	60.00	56.00	52.00	40.00	33.20	26.90	19.40	15.70	13.90	11.61	9.97	8.74	7.78	7.02
KGL 80 P	74.00	69.00	64.00	61.00	47.00	38.30	31.10	22.40	17.80	15.70	13.11	11.26	9.87	8.79	7.93
KGL 100 P	89.00	83.00	78.00	72.00	55.00	46.00	37.30	26.90	21.70	19.20	16.03	13.77	12.07	10.75	9.70
KGL 120 P	108.00	101.00	94.00	89.00	68.00	56.00	45.60	32.80	26.70	23.60	19.71	16.92	14.84	13.22	11.92
KGL 135 P	116.00	106.00	102.00	95.00	76.00	64.00	52.00	37.70	30.10	26.40	22.04	18.93	16.60	14.78	13.33
KGL 155 P	136.00	125.00	120.00	112.00	89.00	72.00	58.30	42.30	34.50	30.30	25.30	21.73	19.05	16.97	15.30
KGL 175 P	155.00	143.00	138.00	128.00	102.00	82.00	66.60	48.30	39.00	34.20	28.56	24.53	21.50	19.15	17.27
KGL 205 P	179.00	166.00	159.00	148.00	118.00	95.00	77.00	55.80	45.80	40.10	33.50	28.80	25.20	22.50	20.30
KGL 225 P	199.00	184.00	176.00	164.00	131.00	106.00	85.00	61.90	50.10	44.00	36.70	31.60	27.70	24.60	22.20
KGL 245 P	209.00	194.00	186.00	173.00	138.00	116.00	93.00	67.90	54.60	47.90	40.00	34.40	30.10	26.80	24.20
KGL 275 P	233.00	215.00	206.00	192.00	153.00	129.00	104.00	75.40	61.20	53.80	44.90	38.60	33.80	30.10	27.20
KGL 300 P	251.00	232.00	222.00	207.00	166.00	139.00	113.00	81.00	66.90	58.70	49.00	42.10	36.90	32.90	29.60
KGL 330 P	283.00	265.00	252.00	233.00	190.00	160.00	124.00	88.00	72.00	64.50	53.90	46.30	40.60	36.10	32.60
KGL 350 P	302.00	282.00	269.00	248.00	202.00	170.00	132.00	93.00	76.80	68.40	57.10	49.10	43.00	38.30	34.50
KGL 375 P	320.00	300.00	286.00	264.00	215.00	181.00	141.00	100.00	81.80	73.30	61.20	52.60	46.10	41.00	37.00
KGL 390 P	335.00	314.00	298.00	276.00	224.00	189.00	147.00	104.00	85.00	76.20	63.60	54.60	47.90	42.70	38.50
KGL 420 P	358.00	335.00	319.00	295.00	241.00	202.00	157.00	112.00	91.60	82.10	68.60	58.90	51.60	46.00	41.50
KGL 440 P	368.00	344.00	328.00	303.00	247.00	208.00	161.00	117.00	96.90	86.00	71.80	61.70	54.10	48.20	43.40
KGL 500 P	558.00	506.00	464.00	421.00	320.00	269.00	218.00	156.00	120.00	99.00	82.70	71.00	62.20	55.40	50.00
KGL 555 P	620.00	562.00	516.00	468.00	356.00	299.00	242.00	173.00	133.00	110.00	91.90	78.90	69.10	61.60	55.60
KGL 585 P	652.00	592.00	542.00	492.00	374.00	314.00	255.00	182.00	141.00	116.00	96.60	83.00	72.80	64.80	58.50
KGL 610 P	682.00	618.00	567.00	515.00	391.00	329.00	266.00	191.00	146.00	121.00	101.10	86.80	76.00	67.70	61.10
KGL 645 P	719.00	652.00	598.00	542.00	413.00	347.00	281.00	201.00	155.00	128.00	106.50	91.50	80.20	71.50	64.50
KGL 665 P	744.00	675.00	619.00	561.00	427.00	359.00	291.00	208.00	161.00	132.00	110.20	94.70	83.00	73.90	66.70
KGL 705 P	786.00	713.00	654.00	593.00	451.00	379.00	307.00	220.00	170.00	139.00	116.50	100.00	87.70	78.10	70.40
KGL 750 P	837.00	759.00	696.00	632.00	480.00	404.00	327.00	234.00	181.00	149.00	124.40	106.90	93.70	83.40	75.20
KGL 795 P	887.00	804.00	737.00	669.00	508.00	427.00	347.00	248.00	192.00	157.00	131.30	112.80	98.90	88.10	79.40
KGL 835 P	930.00	843.00	773.00	702.00	533.00	448.00	363.00	260.00	201.00	165.00	137.80	118.30	103.70	92.40	83.30
KGL 890 P	992.00	900.00	825.00	748.00	569.00	478.00	388.00	277.00	214.00	176.00	147.00	126.30	110.70	98.60	88.90
KGL 990 P	1104.00	1001.00	918.00	833.00	633.00	532.00	432.00	308.00	239.00	196.00	163.50	140.50	123.10	109.70	98.90
KGL 1110 P	1240.00	1124.00	1031.00	936.00	711.00	598.00	484.00	347.00	268.00	220.00	183.70	157.80	138.30	123.20	111.10
KGL 1260 P	1405.00	1275.00	1168.00	1060.00	806.00	677.00	549.00	393.00	304.00	249.00	208.10	178.80	156.70	139.60	125.90
KGL 1320 P	1472.00	1335.00	1224.00	1110.00	844.00	709.00	575.00	411.00	318.00	261.00	218.00	187.30	164.20	146.20	131.90
KGL 1390 P	1550.00	1406.00	1289.00	1169.00	889.00	747.00	606.00	433.00	335.00	275.00	229.60	197.20	172.90	154.00	138.90
KGL 1460 P	1628.00	1477.00	1354.00	1228.00	934.00	785.00	637.00	455.00	352.00	289.00	241.20	207.10	181.60	161.80	145.90
KGL 1570 P	1751.00	1588.00	1456.00	1320.00	1004.00	844.00	684.00	489.00	378.00	311.00	259.30	222.70	195.30	173.90	156.90

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.00 V

Cell type / Zelltyp		Discharge current / Entladestrom [A]														
		5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h
KGL	12 P	12.70	12.20	10.80	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	20.80	19.90	17.70	16.20	12.30	9.50	7.70	5.54	4.56	4.00	3.34	2.87	2.52	2.24	2.02
KGL	25 P	27.80	26.50	23.60	21.60	16.50	12.60	10.20	7.39	5.69	5.00	4.18	3.59	3.14	2.80	2.53
KGL	35 P	34.70	33.20	29.50	27.10	20.70	15.80	12.80	9.24	7.97	7.00	5.85	5.02	4.40	3.92	3.54
KGL	45 P	41.60	38.60	34.00	32.90	27.50	21.10	17.10	12.32	10.25	9.00	7.52	6.45	5.66	5.04	4.55
KGL	50 P	54.50	50.70	43.80	40.90	32.10	26.20	20.90	14.90	11.50	10.00	8.35	7.17	6.29	5.60	5.05
KGL	60 P	68.00	63.00	54.00	49.60	37.80	31.30	24.60	17.60	13.80	12.00	10.02	8.61	7.55	6.72	6.06
KGL	70 P	74.00	70.00	64.00	61.00	46.00	35.20	28.20	20.00	16.00	14.00	11.69	10.04	8.80	7.84	7.07
KGL	80 P	85.00	80.00	74.00	70.00	53.00	40.60	32.50	23.10	18.20	16.00	13.36	11.47	10.06	8.96	8.08
KGL	100 P	101.00	96.00	89.00	84.00	63.00	48.70	39.00	27.70	22.70	20.00	16.70	14.34	12.58	11.20	10.10
KGL	120 P	124.00	118.00	109.00	103.00	77.00	59.50	47.60	33.90	27.30	24.00	20.04	17.21	15.09	13.44	12.12
KGL	135 P	137.00	129.00	121.00	114.00	86.00	68.00	53.70	38.50	30.80	27.00	22.55	19.36	16.98	15.12	13.64
KGL	155 P	161.00	151.00	142.00	134.00	102.00	77.00	60.10	43.10	35.30	31.00	25.89	22.23	19.49	17.36	15.66
KGL	175 P	185.00	173.00	162.00	153.00	116.00	87.00	69.00	49.30	39.90	35.00	29.23	25.10	22.01	19.60	17.68
KGL	205 P	213.00	200.00	188.00	178.00	134.00	101.00	79.00	57.00	46.70	41.00	34.20	29.40	25.80	23.00	20.70
KGL	225 P	236.00	222.00	208.00	197.00	149.00	112.00	88.00	63.10	51.30	45.00	37.60	32.30	28.30	25.20	22.70
KGL	245 P	249.00	234.00	219.00	207.00	158.00	124.00	97.00	69.30	55.80	49.00	40.90	35.10	30.80	27.40	24.70
KGL	275 P	277.00	260.00	243.00	230.00	174.00	138.00	107.00	77.00	62.30	55.00	45.90	39.40	34.60	30.80	27.80
KGL	300 P	299.00	281.00	263.00	248.00	190.00	148.00	116.00	83.20	68.30	60.00	50.10	43.00	37.70	33.60	30.30
KGL	330 P	345.00	317.00	296.00	275.00	213.00	162.00	127.00	89.90	74.10	66.00	55.10	47.30	41.50	37.00	33.30
KGL	350 P	368.00	339.00	316.00	294.00	227.00	172.00	135.00	96.00	78.80	70.00	58.50	50.20	44.00	39.20	35.40
KGL	375 P	391.00	360.00	335.00	312.00	241.00	183.00	143.00	102.00	84.20	75.00	62.60	53.80	47.20	42.00	37.90
KGL	390 P	408.00	376.00	350.00	326.00	252.00	191.00	150.00	106.00	87.60	78.00	65.10	55.90	49.00	43.70	39.40
KGL	420 P	437.00	402.00	375.00	349.00	269.00	205.00	160.00	113.00	94.30	84.00	70.10	60.20	52.80	47.00	42.40
KGL	440 P	449.00	413.00	385.00	358.00	276.00	210.00	165.00	120.00	98.80	88.00	73.50	63.10	55.30	49.30	44.40
KGL	500 P	664.00	612.00	547.00	495.00	365.00	297.00	229.00	158.00	122.00	100.00	83.40	71.60	62.80	55.90	50.40
KGL	555 P	738.00	680.00	608.00	550.00	406.00	330.00	254.00	176.00	136.00	111.00	92.70	79.60	69.80	62.10	56.00
KGL	585 P	776.00	715.00	639.00	579.00	427.00	347.00	268.00	185.00	142.00	117.00	97.70	83.90	73.60	65.50	59.10
KGL	610 P	812.00	748.00	669.00	605.00	446.00	363.00	280.00	193.00	149.00	122.00	101.90	87.50	76.80	68.30	61.60
KGL	645 P	856.00	789.00	705.00	638.00	471.00	383.00	295.00	204.00	156.00	129.00	107.70	92.50	81.10	72.20	65.10
KGL	665 P	885.00	816.00	729.00	660.00	487.00	396.00	305.00	211.00	162.00	133.00	111.10	95.40	83.60	74.50	67.20
KGL	705 P	935.00	862.00	770.00	697.00	514.00	418.00	323.00	223.00	171.00	141.00	117.70	101.10	88.70	79.00	71.20
KGL	750 P	996.00	918.00	821.00	743.00	548.00	446.00	344.00	237.00	183.00	150.00	125.30	107.60	94.30	84.00	75.80
KGL	795 P	1055.00	972.00	869.00	786.00	580.00	472.00	364.00	251.00	193.00	159.00	132.70	114.00	100.00	89.10	80.30
KGL	835 P	1107.00	1020.00	912.00	825.00	608.00	495.00	382.00	263.00	203.00	167.00	139.40	119.80	105.00	93.50	84.30
KGL	890 P	1181.00	1088.00	973.00	880.00	649.00	528.00	407.00	281.00	216.00	178.00	148.60	127.70	111.90	99.70	89.90
KGL	990 P	1313.00	1211.00	1082.00	979.00	722.00	588.00	453.00	313.00	240.00	198.00	165.30	142.00	124.50	110.90	100.00
KGL	1110 P	1476.00	1360.00	1216.00	1100.00	811.00	660.00	509.00	351.00	270.00	222.00	185.40	159.20	139.60	124.30	112.10
KGL	1260 P	1672.00	1541.00	1377.00	1246.00	919.00	748.00	577.00	398.00	305.00	252.00	210.40	180.80	158.50	141.10	127.30
KGL	1320 P	1751.00	1614.00	1443.00	1306.00	963.00	783.00	604.00	417.00	320.00	264.00	220.40	189.40	166.00	147.90	133.30
KGL	1390 P	1844.00	1700.00	1519.00	1375.00	1014.00	825.00	636.00	439.00	337.00	278.00	232.10	199.40	174.80	155.70	140.40
KGL	1460 P	1937.00	1786.00	1595.00	1444.00	1065.00	867.00	668.00	461.00	354.00	292.00	243.80	209.40	183.60	163.50	147.50
KGL	1570 P	2083.00	1920.00	1716.00	1553.00	1145.00	932.00	718.00	496.00	381.00	314.00	262.20	225.20	197.40	175.90	158.60

Technical Specifications / Technische Kenndaten

Cell type Zelltyp	Nominal Capacity C ₅ [Ah] at 1.15 V Nennkapazität C ₅ [Ah] bei 1,15 V	Dimensions / Abmessungen [mm]				Terminals / Pole		Total Weight / Gesamtgewicht [kg]
		l	w	h	h ₁	Type / Art M = Nut / Mutter S = Screw / Schraube	Size / Größe	
KGM 11P	11	46	85	167	193	M	2 x M 10	1.0
KGM 18P	18	46	85	237	263	M	2 x M 10	1.5
KGM 24P	24	46	85	237	263	M	2 x M 10	1.6
KGM 30P	30	46	85	237	263	M	2 x M 10	1.7
KGM 40P	40	85	85	237	263	M	2 x M 10	2.7
KGM 48P	48	85	85	237	263	M	2 x M 10	2.8
KGM 55P	55	85	85	237	263	M	2 x M 10	2.9
KGM 65P	65	53	134	364	394	S	2 x M 8	4.9
KGM 75P	75	53	134	364	394	S	2 x M 8	5.0
KGM 90P	90	69	134	364	394	S	2 x M 8	6.0
KGM 110P	110	69	134	364	394	S	2 x M 8	6.3
KGM 125P	125	70	164	364	394	S	2 x M 8	7.7
KGM 140P	140	70	164	364	394	S	2 x M 8	7.8
KGM 160P	160	108	164	364	394	S	2 x M 8	10.4
KGM 185P	185	108	164	364	394	S	2 x M 8	10.8
KGM 205P	205	108	164	364	394	S	2 x M 8	11.1
KGM 225P	225	108	164	364	394	S	2 x M 8	11.6
KGM 250P	250	108	164	364	394	S	2 x M 8	12.2
KGM 270P	270	164	158	364	394	S	2 x M 10	15.8
KGM 300P	300	164	158	364	394	S	2 x M 10	16.5
KGM 320P	320	164	158	364	394	S	2 x M 10	17.0
KGM 340P	340	164	158	364	394	S	2 x M 10	17.5
KGM 355P	355	164	158	364	394	S	2 x M 10	18.0
KGM 380P	380	164	158	364	394	S	2 x M 10	18.5
KGM 400P	400	164	158	364	394	S	2 x M 10	18.9
KGM 450P	450	176	246	382	410	S	4 x M 10	27.3
KGM 470P	470	176	246	382	410	S	4 x M 10	27.8
KGM 500P	500	176	246	382	410	S	4 x M 10	28.3
KGM 520P	520	176	246	382	410	S	4 x M 10	28.9
KGM 550P	550	176	246	382	410	S	4 x M 10	29.3
KGM 570P	570	176	246	382	410	S	4 x M 10	29.7
KGM 600P	600	176	368	382	420	S	6 x M 10	40.7
KGM 630P	630	176	368	382	420	S	6 x M 10	41.2
KGM 675P	675	176	368	382	420	S	6 x M 10	41.9
KGM 690P	690	176	368	382	420	S	6 x M 10	42.3
KGM 750P	750	176	368	382	420	S	6 x M 10	43.1
KGM 770P	770	176	368	382	420	S	6 x M 10	43.8
KGM 800P	800	176	448	382	420	S	8 x M 10	49.1
KGM 850P	850	176	448	382	420	S	8 x M 10	51.4
KGM 950P	950	176	448	382	420	S	8 x M 10	53.7
KGM 1000P	1000	176	448	382	420	S	8 x M 10	57.6
KGM 1030P	1030	176	448	382	420	S	8 x M 10	58.9
KGM 1130P	1130	176	448	382	420	S	8 x M 10	61.9
KGM 1250P	1250	176	558	382	420	S	10 x M 10	68.9
KGM 1350P	1350	176	558	382	420	S	10 x M10	70.1

* rated capacity acc. to IEC 62259, point 3.3 / Bemessungskapazität entsprechend IEC 62259, Punkt 3.3

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.15 V

Cell type / Zelltyp		Discharge current / Entladestrom [A]													
		5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	5 h	6 h	7 h	8 h	9 h	10 h
KGM	11P	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	18P	12.60	11.70	10.40	9.80	8.10	6.80	5.95	4.59	3.60	3.03	2.62	2.32	2.08	1.89
KGM	24P	16.80	15.60	13.90	13.10	10.70	9.14	7.90	6.12	4.80	4.04	3.50	3.09	2.77	2.52
KGM	30P	21.00	19.50	17.40	16.40	13.40	11.40	9.80	7.60	6.00	5.05	4.37	3.86	3.47	3.15
KGM	40P	29.60	26.10	23.20	21.80	17.80	15.20	13.10	10.20	8.00	6.73	5.83	5.15	4.62	4.20
KGM	48P	38.80	34.20	30.40	28.70	22.80	19.90	17.30	13.20	9.60	8.08	6.99	6.18	5.55	5.04
KGM	55P	48.00	42.30	37.60	35.40	27.70	24.60	21.50	16.20	11.00	9.26	8.01	7.08	6.36	5.78
KGM	65P	49.00	46.20	42.50	39.70	31.00	26.30	23.30	17.40	13.00	10.90	9.50	8.40	7.50	6.80
KGM	75P	56.60	53.90	48.30	45.50	35.90	30.40	26.80	20.10	15.00	12.60	10.90	9.70	8.70	7.90
KGM	90P	68.20	64.50	58.90	54.20	42.70	36.50	32.30	24.10	18.00	15.20	13.10	11.60	10.40	9.50
KGM	110P	83.50	78.90	71.40	66.80	52.40	44.60	39.40	29.50	22.00	18.50	16.00	14.20	12.70	11.60
KGM	125P	94.10	84.70	78.20	75.50	57.20	49.60	43.40	34.70	25.00	21.00	18.20	16.10	14.40	13.10
KGM	140P	104.60	95.20	85.90	78.40	64.00	55.40	48.70	38.80	28.00	23.60	20.40	18.00	16.20	14.70
KGM	160P	120.00	108.70	97.50	89.10	73.70	63.20	55.60	44.40	32.00	26.90	23.30	20.60	18.50	16.80
KGM	185P	138.20	126.00	112.90	102.60	85.40	72.90	64.40	51.30	37.00	31.10	27.00	23.80	21.40	19.40
KGM	205P	153.60	139.50	125.50	114.20	94.10	80.70	71.20	56.80	41.00	34.50	29.90	26.40	23.70	21.50
KGM	225P	162.20	147.20	132.20	120.00	98.90	88.50	78.00	58.80	45.00	37.90	32.80	29.00	26.00	23.60
KGM	250P	179.50	163.50	146.70	133.60	110.60	98.20	86.80	65.40	50.00	42.10	36.40	32.20	28.90	26.30
KGM	270P	193.90	176.00	158.30	144.20	119.30	105.90	93.60	70.60	54.00	45.50	39.30	34.80	31.20	28.40
KGM	300P	222.70	206.80	184.30	171.30	141.60	128.30	109.20	82.30	60.00	50.50	43.70	38.60	34.70	31.50
KGM	320P	238.10	220.30	195.90	183.00	151.30	137.10	117.00	87.80	64.00	53.90	46.60	41.20	37.00	33.60
KGM	340P	252.50	233.80	208.40	194.60	161.00	145.80	123.80	93.30	68.00	57.20	49.50	43.80	39.30	35.70
KGM	355P	264.00	244.30	218.10	202.30	167.80	152.60	129.70	97.00	71.00	59.80	51.70	45.70	41.00	37.30
KGM	380P	282.20	261.70	233.50	216.80	179.50	163.30	138.50	103.90	76.00	64.00	55.40	48.90	43.90	39.90
KGM	400P	289.90	268.40	239.30	222.60	184.30	167.20	142.40	109.80	80.00	67.30	58.30	51.50	46.20	42.00
KGM	450P	324.00	294.00	267.00	240.00	199.00	187.00	176.00	132.00	90.00	76.00	66.00	58.00	52.00	47.00
KGM	470P	338.00	308.00	279.00	251.00	208.00	195.00	183.00	138.00	94.00	79.00	68.00	61.00	54.00	49.00
KGM	500P	359.00	327.00	297.00	267.00	221.00	207.00	195.00	147.00	100.00	84.00	73.00	64.00	58.00	52.00
KGM	520P	374.00	340.00	309.00	277.00	230.00	215.00	203.00	153.00	104.00	87.00	76.00	67.00	60.00	54.00
KGM	550P	396.00	360.00	327.00	293.00	243.00	228.00	215.00	162.00	110.00	93.00	81.00	71.00	64.00	57.00
KGM	570P	410.00	373.00	338.00	304.00	252.00	236.00	223.00	168.00	114.00	96.00	83.00	73.00	66.00	60.00
KGM	600P	431.00	392.00	356.00	320.00	265.00	249.00	234.00	176.00	120.00	101.00	87.00	77.00	69.00	63.00
KGM	630P	453.00	412.00	374.00	336.00	278.00	261.00	246.00	185.00	126.00	106.00	92.00	81.00	73.00	66.00
KGM	675P	486.00	442.00	401.00	360.00	299.00	280.00	263.00	199.00	135.00	114.00	98.00	87.00	78.00	71.00
KGM	690P	496.00	452.00	410.00	368.00	305.00	286.00	269.00	203.00	138.00	116.00	100.00	89.00	79.00	72.00
KGM	750P	540.00	491.00	446.00	400.00	332.00	311.00	293.00	221.00	150.00	126.00	109.00	97.00	87.00	79.00
KGM	770P	554.00	504.00	457.00	411.00	340.00	319.00	301.00	227.00	154.00	129.00	112.00	99.00	89.00	81.00
KGM	800P	575.00	524.00	475.00	427.00	353.00	332.00	312.00	236.00	160.00	134.00	116.00	103.00	92.00	84.00
KGM	850P	611.00	556.00	505.00	454.00	375.00	352.00	332.00	250.00	170.00	143.00	124.00	109.00	98.00	89.00
KGM	950P	683.00	622.00	564.00	507.00	420.00	394.00	371.00	280.00	190.00	160.00	138.00	122.00	109.00	100.00
KGM	1000P	719.00	654.00	594.00	533.00	442.00	415.00	390.00	294.00	200.00	168.00	146.00	129.00	116.00	105.00
KGM	1030P	741.00	674.00	611.00	550.00	455.00	427.00	402.00	303.00	206.00	173.00	150.00	133.00	119.00	108.00
KGM	1130P	813.00	739.00	671.00	603.00	499.00	468.00	441.00	333.00	226.00	190.00	165.00	146.00	130.00	118.00
KGM	1250P	899.00	818.00	742.00	667.00	552.00	518.00	488.00	368.00	250.00	210.00	182.00	161.00	144.00	131.00
KGM	1350P	971.00	883.00	801.00	720.00	596.00	559.00	527.00	397.00	270.00	227.00	197.00	174.00	156.00	141.00

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.10 V

Cell type / Zelltyp	Discharge current / Entladestrom [A]													
	5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	5 h	6 h	7 h	8 h	9 h	10 h
KGM 11P	11.20	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 18P	18.30	16.00	13.60	12.70	10.30	8.36	7.12	5.29	3.82	3.20	2.75	2.42	2.16	1.95
KGM 24P	24.40	21.40	18.10	16.80	13.70	11.08	9.56	7.06	5.09	4.26	3.66	3.22	2.87	2.60
KGM 30P	30.50	26.60	22.70	21.10	17.10	13.90	11.90	8.80	6.36	5.32	4.58	4.02	3.59	3.24
KGM 40P	37.20	33.20	29.70	27.40	22.70	18.50	16.00	11.80	8.48	7.09	6.11	5.36	4.79	4.32
KGM 48P	48.90	43.60	39.00	36.00	27.90	23.50	20.10	14.80	10.00	8.37	7.20	6.33	5.64	5.10
KGM 55P	60.50	53.90	48.30	44.50	33.10	28.60	24.20	17.70	11.50	9.62	8.28	7.27	6.49	5.87
KGM 65P	68.20	63.50	56.90	52.30	39.80	32.50	28.10	20.00	13.80	11.55	9.94	8.73	7.79	7.04
KGM 75P	78.70	73.10	65.60	60.00	46.60	37.50	32.40	23.00	15.90	13.30	11.45	10.06	8.97	8.11
KGM 90P	94.10	88.50	79.10	71.60	55.30	45.00	38.80	27.60	19.10	15.98	13.75	12.08	10.78	9.74
KGM 110P	115.20	107.70	96.50	88.10	67.90	55.00	47.50	33.80	23.30	19.49	16.78	14.74	13.15	11.88
KGM 125P	122.90	111.60	103.30	94.90	72.80	62.20	52.90	38.80	26.30	22.00	18.90	16.60	14.80	13.40
KGM 140P	137.30	125.10	115.80	105.50	85.40	70.00	59.30	43.50	29.40	24.60	21.20	18.60	16.60	15.00
KGM 160P	157.40	142.40	132.20	121.00	98.00	79.70	67.80	49.70	33.60	28.10	24.20	21.30	19.00	17.10
KGM 185P	182.40	164.50	152.50	139.40	112.50	92.30	78.00	57.50	38.90	32.50	28.00	24.60	22.00	19.80
KGM 205P	201.60	182.80	168.90	154.90	125.10	102.10	86.80	63.70	43.10	36.10	31.00	27.30	24.30	22.00
KGM 225P	212.20	192.40	177.60	163.60	131.90	111.80	95.60	68.40	47.30	39.60	34.10	29.90	26.70	24.10
KGM 250P	236.20	213.60	197.80	181.00	146.50	124.40	106.30	76.00	52.60	44.00	37.90	33.30	29.70	26.80
KGM 270P	255.40	230.90	213.30	195.50	158.10	134.10	114.10	82.10	56.80	47.50	40.90	35.90	32.10	29.00
KGM 300P	299.50	270.30	250.90	224.60	182.40	160.40	129.70	91.90	63.00	52.70	45.40	39.80	35.60	32.10
KGM 320P	318.70	287.60	267.30	240.10	194.00	171.10	138.50	98.00	67.20	56.20	48.40	42.50	37.90	34.30
KGM 340P	338.90	305.90	284.70	254.60	206.60	181.80	147.20	103.90	71.40	59.70	51.40	45.20	40.30	36.40
KGM 355P	354.20	319.40	297.20	266.20	215.30	190.50	153.10	108.80	74.60	62.40	53.70	47.20	42.10	38.00
KGM 380P	379.20	342.50	317.50	284.60	230.90	203.10	164.80	116.60	79.80	66.80	57.50	50.50	45.00	40.70
KGM 400P	388.80	351.10	326.20	292.30	236.70	209.00	168.70	122.50	84.00	70.30	60.50	53.10	47.40	42.80
KGM 450P	425.00	385.00	356.00	326.00	264.00	231.00	198.00	146.00	94.50	79.10	68.00	59.80	53.30	48.20
KGM 470P	444.00	402.00	372.00	341.00	276.00	241.00	207.00	153.00	98.90	82.70	71.20	62.50	55.80	50.40
KGM 500P	472.00	427.00	396.00	362.00	293.00	257.00	220.00	163.00	105.00	87.90	75.60	66.40	59.20	53.60
KGM 520P	492.00	445.00	411.00	377.00	305.00	267.00	229.00	169.00	109.40	91.50	78.80	69.20	61.70	55.80
KGM 550P	519.00	470.00	435.00	399.00	322.00	283.00	242.00	178.00	116.00	96.70	83.10	73.10	65.10	58.90
KGM 570P	539.00	487.00	451.00	413.00	334.00	293.00	251.00	185.00	119.90	100.30	86.40	75.80	67.70	61.10
KGM 600P	567.00	513.00	475.00	435.00	352.00	308.00	264.00	195.00	126.00	105.40	90.70	79.70	71.10	64.30
KGM 630P	596.00	539.00	498.00	457.00	369.00	324.00	277.00	205.00	132.60	110.90	95.50	83.80	74.80	67.60
KGM 675P	638.00	577.00	535.00	490.00	396.00	347.00	297.00	220.00	142.00	118.80	102.20	89.80	80.20	72.40
KGM 690P	652.00	590.00	546.00	500.00	405.00	354.00	304.00	224.00	145.00	121.40	104.50	91.80	81.90	74.00
KGM 750P	708.00	642.00	593.00	543.00	439.00	386.00	330.00	243.00	158.00	132.20	113.80	99.90	89.20	80.60
KGM 770P	728.00	659.00	609.00	558.00	452.00	395.00	335.00	245.00	162.00	135.60	116.00	102.40	91.60	82.60
KGM 800P	756.00	684.00	630.00	580.00	469.00	411.00	353.00	260.00	165.00	138.00	121.20	106.40	95.00	85.80
KGM 850P	804.00	727.00	673.00	616.00	498.00	437.00	374.00	276.00	178.80	149.60	128.80	113.10	100.90	91.20
KGM 950P	898.00	812.00	752.00	689.00	557.00	488.00	418.00	309.00	199.90	167.20	143.90	126.40	112.80	101.90
KGM 1000P	945.00	855.00	791.00	725.00	586.00	514.00	440.00	324.00	210.00	175.70	151.20	132.80	118.50	107.10
KGM 1030P	974.00	881.00	815.00	747.00	604.00	529.00	453.00	335.00	216.70	181.30	156.10	137.00	122.30	110.50
KGM 1130P	1069.00	966.00	894.00	819.00	663.00	580.00	497.00	367.00	237.80	198.90	171.20	150.30	134.20	121.20
KGM 1250P	1182.00	1069.00	989.00	906.00	733.00	642.00	550.00	406.00	263.00	220.00	189.40	166.30	148.40	134.10
KGM 1350P	1277.00	1155.00	1068.00	978.00	792.00	693.00	594.00	438.00	284.00	237.60	204.60	179.60	160.30	144.80

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.05 V

Cell type / Zelltyp	Discharge current / Entladestrom [A]													
	5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	5 h	6 h	7 h	8 h	9 h	10 h
KGM 11P	14.10	12.90	10.80	9.60	7.30	5.99	4.89	3.45	2.38	1.99	1.71	1.50	1.33	1.20
KGM 18P	23.10	21.10	17.70	15.60	11.90	9.82	8.00	5.64	3.89	3.25	2.79	2.45	2.18	1.96
KGM 24P	30.90	28.10	23.50	20.80	15.90	13.02	10.73	7.53	5.18	4.33	3.71	3.26	2.90	2.62
KGM 30P	38.60	35.10	29.40	26.00	19.90	16.30	13.40	9.40	6.48	5.41	4.65	4.07	3.63	3.27
KGM 40P	47.20	41.50	35.60	32.70	26.60	21.90	17.70	12.50	8.64	7.21	6.20	5.43	4.84	4.36
KGM 48P	62.00	54.40	46.80	43.00	32.20	26.40	21.80	15.60	10.40	8.68	7.46	6.54	5.82	5.25
KGM 55P	76.80	67.30	57.90	53.20	37.80	31.90	25.90	18.60	12.10	10.10	8.68	7.61	6.78	6.11
KGM 65P	81.60	75.00	67.60	62.00	45.60	37.30	29.80	20.80	14.10	11.77	10.11	8.87	7.90	7.12
KGM 75P	94.10	86.60	77.20	71.60	53.40	43.10	34.40	24.00	16.20	13.53	11.62	10.19	9.07	8.18
KGM 90P	113.30	103.90	93.60	85.20	63.10	51.70	41.30	28.80	19.50	16.28	13.98	12.26	10.92	9.85
KGM 110P	138.20	127.00	113.90	104.50	77.60	63.20	50.50	35.20	23.80	19.87	17.07	14.96	13.33	12.02
KGM 125P	147.80	133.70	122.60	112.30	86.30	71.90	57.60	40.40	26.90	22.46	19.29	16.91	15.06	13.58
KGM 140P	173.80	157.80	144.80	132.60	101.90	80.70	64.50	45.30	30.10	25.13	21.59	18.93	16.86	15.20
KGM 160P	198.70	179.90	166.00	151.00	116.40	92.30	73.80	51.70	34.40	28.72	24.67	21.63	19.26	17.37
KGM 185P	229.40	208.80	192.00	174.20	134.80	106.90	85.80	59.80	39.80	33.20	28.50	25.00	22.30	20.10
KGM 205P	254.40	230.90	212.30	193.60	149.40	118.60	94.60	66.20	44.10	36.80	31.60	27.70	24.70	22.30
KGM 225P	267.80	243.40	223.90	204.20	157.10	130.20	103.40	72.70	48.40	40.40	34.70	30.40	27.10	24.40
KGM 250P	297.60	270.30	249.00	226.50	174.60	144.80	115.10	80.80	53.80	44.90	38.60	33.80	30.10	27.20
KGM 270P	321.60	291.50	268.30	244.90	189.20	156.50	124.80	87.20	58.10	48.50	41.70	36.50	32.50	29.30
KGM 300P	361.90	332.90	304.00	274.90	216.30	179.80	137.50	94.10	64.50	53.90	46.30	40.60	36.10	32.60
KGM 320P	385.90	355.00	324.20	293.30	230.90	191.50	146.30	100.00	68.80	57.40	49.30	43.30	38.50	34.70
KGM 340P	409.90	377.10	344.50	311.70	245.40	203.10	156.00	106.80	73.10	61.00	52.40	46.00	40.90	36.90
KGM 355P	428.20	394.40	359.90	325.20	256.10	211.90	162.80	111.70	76.30	63.70	54.70	48.00	42.70	38.50
KGM 380P	457.90	421.40	385.00	348.50	274.50	227.40	173.60	119.60	81.70	68.20	58.60	51.40	45.80	41.30
KGM 400P	470.40	432.90	395.70	357.20	281.30	233.30	178.40	125.40	86.00	71.80	61.70	54.10	48.20	43.40
KGM 450P	536.00	487.00	448.00	408.00	310.00	261.00	213.00	153.00	99.00	82.70	71.00	62.20	55.40	50.00
KGM 470P	559.00	509.00	468.00	426.00	324.00	273.00	222.00	159.00	103.40	86.30	74.10	65.00	57.90	52.20
KGM 500P	595.00	541.00	498.00	453.00	345.00	291.00	236.00	170.00	110.00	91.90	78.90	69.10	61.60	55.60
KGM 520P	619.00	563.00	518.00	471.00	359.00	302.00	246.00	176.00	114.40	95.50	82.00	71.90	64.10	57.80
KGM 550P	655.00	595.00	547.00	499.00	379.00	320.00	259.00	187.00	121.00	101.10	86.80	76.00	67.70	61.10
KGM 570P	679.00	617.00	567.00	516.00	393.00	331.00	269.00	193.00	125.40	104.70	89.90	78.80	70.20	63.30
KGM 600P	714.00	649.00	597.00	543.00	414.00	349.00	284.00	204.00	132.00	110.20	94.70	83.00	73.90	66.70
KGM 630P	750.00	682.00	627.00	571.00	434.00	366.00	298.00	214.00	138.60	115.70	99.40	87.10	77.60	70.00
KGM 675P	804.00	730.00	672.00	612.00	466.00	393.00	319.00	229.00	149.00	124.40	106.90	93.70	83.40	75.20
KGM 690P	821.00	747.00	687.00	625.00	476.00	401.00	326.00	234.00	151.80	126.70	108.90	95.40	85.00	76.70
KGM 750P	893.00	811.00	746.00	680.00	517.00	435.00	354.00	255.00	165.00	137.80	118.30	103.70	92.40	83.30
KGM 770P	917.00	833.00	766.00	697.00	531.00	447.00	364.00	261.00	169.40	141.40	121.50	106.50	94.90	85.60
KGM 800P	952.00	866.00	796.00	724.00	552.00	465.00	378.00	271.00	176.00	146.90	126.20	110.70	98.60	88.90
KGM 850P	1012.00	920.00	846.00	770.00	586.00	494.00	402.00	288.00	187.00	156.10	134.10	117.60	104.70	94.50
KGM 950P	1131.00	1028.00	945.00	860.00	655.00	552.00	449.00	322.00	209.00	174.50	149.90	131.40	117.00	105.60
KGM 1000P	1190.00	1081.00	995.00	906.00	690.00	581.00	472.00	340.00	220.00	183.70	157.80	138.30	123.20	111.10
KGM 1030P	1226.00	1115.00	1025.00	933.00	710.00	598.00	487.00	349.00	226.60	189.20	162.50	142.50	126.90	114.50
KGM 1130P	1345.00	1223.00	1125.00	1023.00	779.00	656.00	534.00	383.00	248.60	207.60	178.30	156.30	139.20	125.60
KGM 1250P	1488.00	1353.00	1244.00	1132.00	862.00	726.00	591.00	424.00	275.00	229.60	197.20	172.90	154.00	138.90
KGM 1350P	1607.00	1461.00	1344.00	1223.00	931.00	784.00	638.00	458.00	297.00	248.00	213.00	186.70	166.30	150.00

Final discharge voltage per cell / Entladeschlussspannung pro Zelle

1.00 V

Cell type / Zelltyp		Discharge current / Entladestrom [A]													
		5 min	10 min	20 min	30 min	1 h	1.5 h	2 h	3 h	5 h	6 h	7 h	8 h	9 h	10 h
KGM	11P	16.20	15.30	13.00	11.40	8.30	6.52	5.19	3.63	2.42	2.02	1.74	1.52	1.36	1.22
KGM	18P	26.60	23.00	21.30	19.20	14.10	10.89	8.48	5.94	3.96	3.31	2.84	2.49	2.22	2.00
KGM	24P	35.50	33.40	28.50	25.60	18.80	14.19	11.31	7.92	5.28	4.41	3.79	3.32	2.96	2.67
KGM	30P	44.40	41.80	35.60	31.90	23.60	17.80	14.10	9.90	6.60	5.51	4.73	4.15	3.70	3.33
KGM	40P	53.20	48.60	41.00	39.90	31.40	23.70	18.90	13.20	8.80	7.35	6.31	5.53	4.93	4.44
KGM	48P	69.80	63.80	52.90	50.60	36.70	29.50	23.10	16.00	10.50	8.77	7.53	6.60	5.88	5.30
KGM	55P	86.40	78.90	64.70	58.60	43.20	35.20	27.20	18.80	12.20	10.19	8.75	7.67	6.83	6.16
KGM	65P	94.10	87.50	77.20	71.60	52.40	39.60	31.20	21.50	14.30	11.94	10.26	8.99	8.01	7.22
KGM	75P	108.50	101.00	89.70	82.30	60.10	45.60	36.00	24.70	16.50	13.78	11.83	10.37	9.24	8.33
KGM	90P	129.60	121.20	107.10	98.70	71.80	54.70	43.20	29.70	19.80	16.53	14.20	12.45	11.09	10.00
KGM	110P	158.40	148.10	131.20	121.00	88.30	66.90	52.70	36.30	24.20	20.21	17.35	15.22	13.55	12.22
KGM	125P	174.70	161.60	145.70	134.60	98.00	76.80	59.50	41.30	27.50	22.96	19.72	17.29	15.40	13.89
KGM	140P	206.40	190.50	171.80	158.80	116.40	86.50	66.60	46.20	30.80	25.72	22.09	19.37	17.25	15.55
KGM	160P	236.20	217.40	195.90	181.00	132.90	98.20	76.10	52.80	35.20	29.39	25.24	22.13	19.71	17.78
KGM	185P	272.60	252.00	226.80	210.10	153.30	113.70	87.80	61.10	40.70	34.00	29.20	25.60	22.80	20.60
KGM	205P	302.40	279.00	250.90	232.30	169.80	126.40	97.50	67.60	45.10	37.70	32.30	28.40	25.30	22.80
KGM	225P	318.70	294.40	264.40	244.90	180.40	139.00	107.30	74.20	49.50	41.30	35.50	31.10	27.70	25.00
KGM	250P	354.20	327.10	293.40	272.00	198.90	154.50	119.00	82.40	55.00	45.90	39.40	34.60	30.80	27.80
KGM	270P	382.10	353.10	317.50	293.30	216.30	166.20	128.70	89.10	59.40	49.60	42.60	37.30	33.30	30.00
KGM	300P	441.60	399.20	357.10	324.30	242.50	181.80	140.40	96.30	66.00	55.10	47.30	41.50	37.00	33.30
KGM	320P	471.40	426.20	381.20	346.50	259.00	193.40	149.20	102.90	70.40	58.80	50.50	44.30	39.40	35.60
KGM	340P	500.20	453.10	404.30	367.80	274.50	206.10	158.90	108.80	74.80	62.50	53.60	47.00	41.90	37.80
KGM	355P	522.20	473.30	422.70	384.30	287.10	214.80	165.80	113.70	78.10	65.20	56.00	49.10	43.70	39.40
KGM	380P	559.70	506.00	452.60	411.40	307.50	230.40	177.50	121.50	83.60	69.80	60.00	52.60	46.80	42.20
KGM	400P	574.10	519.50	464.20	422.00	315.30	236.20	182.30	128.40	88.00	73.50	63.10	55.30	49.30	44.40
KGM	450P	637.00	589.00	528.00	479.00	354.00	289.00	223.00	155.00	99.90	83.40	71.60	62.80	55.90	50.40
KGM	470P	666.00	615.00	551.00	500.00	370.00	302.00	233.00	162.00	104.50	87.30	75.00	65.70	58.50	52.80
KGM	500P	708.00	654.00	587.00	532.00	394.00	321.00	248.00	172.00	111.00	92.70	79.60	69.80	62.10	56.00
KGM	520P	736.00	680.00	610.00	554.00	409.00	334.00	258.00	179.00	115.60	96.60	83.00	72.70	64.80	58.40
KGM	550P	780.00	720.00	646.00	586.00	433.00	353.00	273.00	189.00	122.00	101.90	87.50	76.80	68.30	61.60
KGM	570P	807.00	746.00	668.00	607.00	449.00	366.00	283.00	196.00	126.80	105.80	90.90	79.70	71.00	64.00
KGM	600P	850.00	785.00	703.00	639.00	472.00	385.00	297.00	207.00	133.00	111.10	96.40	83.60	74.50	67.20
KGM	630P	892.00	829.00	739.00	673.00	499.00	404.00	317.00	221.00	141.00	118.00	103.00	91.00	81.50	73.80
KGM	675P	956.00	883.00	791.00	719.00	532.00	434.00	335.00	232.00	150.00	125.30	107.60	94.30	83.00	75.80
KGM	690P	977.00	903.00	809.00	735.00	543.00	443.00	342.00	237.00	153.50	128.10	110.10	96.50	85.90	77.50
KGM	750P	1063.00	981.00	880.00	799.00	590.00	481.00	372.00	258.00	167.00	139.40	119.80	105.00	93.50	84.30
KGM	770P	1090.00	1007.00	903.00	820.00	606.00	494.00	382.00	265.00	171.20	143.00	122.80	107.70	95.90	86.50
KGM	800P	1133.00	1046.00	938.00	852.00	630.00	513.00	397.00	275.00	177.90	148.50	127.60	111.90	99.60	89.90
KGM	850P	1204.00	1112.00	997.00	905.00	669.00	545.00	422.00	292.00	189.00	157.80	135.60	118.90	105.90	95.50
KGM	950P	1345.00	1243.00	1114.00	1012.00	748.00	610.00	471.00	327.00	211.30	176.40	151.50	132.80	118.30	106.70
KGM	1000P	1417.00	1308.00	1173.00	1065.00	787.00	642.00	496.00	344.00	222.00	185.40	159.20	139.60	124.30	112.10
KGM	1030P	1458.00	1347.00	1208.00	1097.00	811.00	661.00	511.00	354.00	229.10	191.30	164.30	144.00	128.30	115.70
KGM	1130P	1600.00	1478.00	1325.00	1203.00	890.00	725.00	560.00	389.00	251.30	209.80	180.30	158.00	140.80	126.90
KGM	1250P	1770.00	1635.00	1466.00	1331.00	984.00	802.00	620.00	430.00	278.00	232.10	199.40	174.80	155.70	140.40
KGM	1350P	1912.00	1766.00	1583.00	1437.00	1063.00	866.00	670.00	464.00	300.20	250.70	215.40	188.80	168.20	151.60

The rated capacity C_5 is not the basis for the performance of the batteries. Always take into account that the performance depends on the battery construction, respectively on the different battery ranges. The cell size for specific application should be calculated according to actual recommended practice IEEE 1115 for stationary applications.

The rated capacity C_5 of *lomain™* range batteries is based on the available ampere hours (Ah) at a discharge rate of 5 hours to the final discharge voltage which is stated in the technical specification table per cell at $20\text{ °C} \pm 5\text{ °C}$.

Nominal voltage per cell is 1.2 V.

Discharging conditions

The discharge performances as well as the rated capacities C_5 given in this brochure are only valid for fully charged cells in accordance with IEC 62259.

Charging conditions

1. Two step charge

Float: 1.40 – 1.42 V/cell
Boost charge: 1.45 – 1.46 V/cell
Current limitation: $0.1 I_t$ A

2. Single step charge

Standard charge: 1.42 – 1.44 V/cell
Current limitation: $0.1 I_t$ A

Note: A higher charging level is possible, but effects the recombination rate and causes higher water consumption.

Die Nennkapazität C_5 ist keine Bemessungsgrundlage für die Leistung. Die Leistung hängt von der Batteriekonstruktion bzw. von der Typenbaureihe ab. Für die Dimensionierung von stationären Batterieanlagen ist die aktuelle Empfehlung gemäß IEEE 1115 anzuwenden.

Die Bemessungskapazität C_5 der Baureihen *lomain™* basiert auf den entnehmbaren Amperestunden (Ah) bei 5-stündiger Entladung und auf den unter „Technischen Kenndaten“ angegebenen Entladeschlussspannungen pro Zelle bei $20\text{ °C} \pm 5\text{ °C}$.

Die Nennspannung pro Zelle beträgt 1,2 V.

Entladeverhalten

Die in unseren Tabellen angegebenen Entladewerte sowie die Nennkapazitäten C_5 beruhen auf ordnungsgemäß geladenen Zellen laut IEC 62259.

Ladebedingungen

1. Zweistufige Ladung

Erhaltungsladung: 1,40 – 1,42 V/Zelle
Starkladung: 1,45 – 1,46 V/Zelle
Strombegrenzung: $0,1 I_t$ A

2. Einstufige Ladung

Standardladung: 1,42 – 1,44 V/Zelle
Strombegrenzung: $0,1 I_t$ A

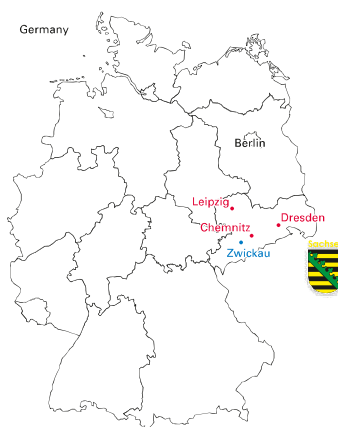
Wichtig: Eine höhere Ladespannung ist möglich, beeinflusst aber die Rekombinationsrate und führt zu einem höheren Wasserverbrauch als angegeben.

All dimensions and weights stated are subject to usual manufacturing tolerances. Electrical values are approximate. The right is reserved to make any alterations without prior notice.

Alle Maß- und Gewichtsangaben unterliegen herkömmlichen Fertigungstoleranzen. Die elektrischen Werte sind angenähert. Änderungen sind ohne Anzeigepflicht vorbehalten.



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