

Power

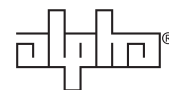
AlphaCell™ OGi

Stationary Flat Plate Flooded Lead Acid Battery



- Power ranges available:
 - 12V from 25–150Ah
 - 6V from 175–300Ah
 - 2V from 600–900Ah
- Wide operating temperature range from -20–+55°C
- 20 year design life
- 3 year—100% full warranty

The AlphaCell OGi battery is designed to provide battery power for critical applications. The flooded lead acid battery, with its low level of self-discharge, makes it ideal for back up power applications in the telecommunication, utility, and transportation industries. The transparent, impact-resistant container allows the user to easily observe electrolyte levels, as the batteries require minimal topping throughout their lifecycle. The AlphaCell OGi batteries are approved to DIN 40 737, IEC 896-1 and VDE 0510 standards.



AlphaCell OGi Feature Summary

AlphaCell OGi 12, 6 and 2V

Standard Warranty:	3 yr full/17 yr prorated
Battery Type:	Stationary Flooded Lead Acid
Range of Capacity:	25–900Ah
Recommended Float Voltage:	1.24VPC @ 20°C (68°F)
Operational Temperature:	25°C (77°F)
Terminal Type:	Threaded Copper Insert
Positive Electrode:	Round-grid plate with circular bars available with low antimony
Negative Electrode:	Flat plate with long life expander and available with low antimony
Separation:	Microporous separator
Electrolyte:	Sulfuric acid of 1,250 ±0,01kg/l at 20°C
Container:	High impact, transparent SAN
Lid:	SAN in dark grey color

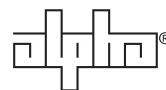
Operational Data

AlphaCell OGi 12, 6 and 2V

Water refilling interval:	More than 3 years at 20°C
IEC 896-1 Cycles:	1000 cycles
Self-discharge:	Approx. 3% per month at 20°C
Operational Temperature:	-20–55°C, recommended -10–30°C
Ventilation Requirement:	f1=0,5 (low-antimony alloy) according VDE 0510 part 2
Measurements According:	DIN 40 737 part
Tests According:	IEC 896-1
Applicable Standards:	VDE 0510, part 2

Mechanical Specifications

Type	L (in/mm)	W (in/mm)	H (in/mm)	Wt. (lb/kg) Batt w/ electrolyte	Wt. (lb/kg) electrolyte only
1 OGi 12-25	10.7/272	8.1/205	14.8/375	72.8/33	24.3/11.0
2 OGi 12-50	10.7/272	8.1/205	14.8/375	90.4/41	24.0/10.9
3 OGi 12-75	10.7/272	8.1/205	14.8/375	108/49	23.8/10.8
4 OGi 12-100	10.7/272	8.1/205	14.8/375	128/58	23.6/10.7
5 OGi 12-125	15.0/380	8.1/205	14.8/375	165/78	34.6/15.7
6 OGi 12-150	15.0/380	8.1/205	14.8/375	189/86	34.2/15.5
7 OGi 6-175	10.7/272	8.1/205	14.8/375	108/49	24.9/11.3
8 OGi 6-200	10.7/272	8.1/205	14.8/375	116/53	24.5/11.1
9 OGi 6-225	15.0/380	8.1/205	14.8/375	150/68	36.2/16.4
10 OGi 6-250	15.0/380	8.1/205	14.8/375	159/72	35.0/16.3
11 OGi 6-275	15.0/380	8.1/205	14.8/375	165/75	35.7/16.2
12 OGi 6-300	15.0/380	8.1/205	14.8/375	174/79	35.3/16.0
24 OGi 2-600	8.1/205	10.7/272	14.8/375	117/53	24.5/11.1
30 OGi 2-750	8.1/205	15.0/380	14.8/375	159/72	36.0/16.3
36 OGi 2-900	8.1/205	15.0/380	14.8/375	174/79	35.3/16.0

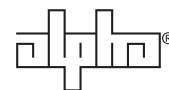


Amperes to Final Voltage of 1.75VPC at 20°C (68°F)

Type	Minutes							Hours					
	3	5	10	15	20	30	45	1	2	3	5	8	10
1OGi 12-25	64.2	57.9	47.2	39.7	34.1	26.4	20.0	16.5	10.1	7.5	5.1	3.6	2.9
2OGi 12-50	126	114	92.8	78.1	67.2	51.9	39.3	32.3	19.9	14.9	9.9	6.9	5.7
3OGi 12-75	189	171	139	118	101	78.3	59.3	48.7	30.1	22.5	14.9	10.5	8.5
4OGi 12-100	251	227	185	155	133	104	78.6	64.6	39.9	29.8	19.7	13.9	11.3
5OGi 12-125	303	276	225	190	164	128	98.0	80.4	49.6	37.1	24.6	17.4	14.1
6OGi 12-150	352	322	264	225	193	154	117	96.6	59.7	44.6	29.7	20.8	17.0
7OGi 6-175	381	349	291	251	219	176	135	112	69.5	52.0	34.5	24.3	19.7
8OGi 6-200	436	400	333	288	252	201	155	128	79.7	59.6	39.5	27.9	22.6
9OGi 6-225	490	448	374	323	283	226	174	144	89.5	66.9	44.3	31.2	25.4
10OGi 6-250	504	462	295	345	307	247	191	160	99.2	74.5	49.4	34.8	28.3
11OGi 6-275	553	508	433	379	337	271	210	176	109	81.7	54.3	38.2	31.0
12OGi 6-300	604	555	473	414	368	297	229	192	119	89.4	59.2	41.8	33.9
20OGi 2-600	1309	1199	1000	863	756	604	464	384	239	179	118	84	68
30OGi 2-750	1512	1387	884	1036	920	741	574	479	298	223	148	104	85
36OGi 2-900	1812	1664	1420	1241	1104	890	687	574	357	268	178	125	102

Amperes to Final Voltage of 1.80VPC at 20°C (68°F)

Type	Minutes							Hours					
	3	5	10	15	20	30	45	1	2	3	5	8	10
1 OGi 12-25	52.7	48.6	41.3	35.5	31.2	24.6	19.1	15.9	9.9	7.4	5.0	3.5	2.9
2 OGi 12-50	103	95.3	81.1	69.6	61.2	48.4	37.4	31.3	19.6	14.6	9.8	6.9	5.5
3 OGi 12-75	156	144	122	105	92.3	73.0	56.5	47.2	29.5	22.0	14.8	10.3	8.0
4 OGi 12-100	207	191	162	139	122	96.7	74.9	62.5	39.1	29.3	19.7	13.7	10.5
5 OGi 12-125	249	230	196	170	149	119	93	77.7	48.7	36.4	24.5	17.0	13.5
6 OGi 12-150	289	269	227	200	175	143	111	93.4	58.7	43.9	29.5	20.5	16.5
7 OGi 6-175	314	292	250	222	199	163	128	108	68.2	51.1	34.4	23.8	19.3
8 OGi 6-200	359	334	287	255	227	187	147	124	78.2	58.6	39.3	27.3	22.8
9 OGi 6-225	403	375	323	286	255	210	165	140	87.8	65.7	44.2	30.7	25.4
10 OGi 6-250	416	386	339	305	277	228	183	156	97.8	73.2	49.2	34.2	27.0
11 OGi 6-275	458	424	371	335	305	250	201	171	107	80.3	54.0	37.5	30.4
12 OGi 6-300	499	464	406	365	333	274	218	187	117	87.8	59.0	41.0	32.0
20 OGi 2-600	1078	1001	861	766	682	560	441	372	235	176	118	82	68
30 OGi 2-750	1248	1159	1016	915	831	685	548	468	293	220	147	102	81
36 OGi 2-900	1498	1391	1218	1096	998	822	655	560	352	263	177	123	96



Uf = 1.75V/cell discharge in (A) at 20°C

Type	Minutes								Hours					
	1	3	5	10	15	20	30	45	1	2	3	5	8	10
12V 1 OGi 25	95	64.2	57.9	47.2	39.7	34.1	26.4	20	16.5	10.1	7.5	5.1	3.2	2.9
12V 2 OGi 50	169	126	114.1	92.8	78.1	67.2	51.9	39.3	32.3	19.9	14.9	9.9	6.2	5.7
12V 3 OGi 75	243	189.5	171.6	139.9	118	101.2	78.3	59.3	48.7	30.1	22.5	14.9	9.5	8.5
12V 4 OGi 100	319	251	227.2	185.5	155.7	133.9	104.2	78.6	64.6	39.9	29.8	19.7	12.5	11.3
12V 5 OGi 125	350	303	276	225	190	164	128	98	80.4	49.6	37.1	24.6	15.7	14.1
12V 6 OGi 150	400	352	322	264	225	193	154	117	96.6	59.7	44.6	29.7	18.7	17
6V 7 OGi 175	446	381	349	291	251	219	176	135	112.1	69.5	52	34.5	21.9	19.7
6V 8 OGi 200	510	436	400	333	288	252	201	155	128	79.7	59.6	39.5	25.1	22.6
6V 9 OGi 225	563	490	448	374	323	283	226	174	143.8	89.5	66.9	44.3	28.1	25.4
6V 10 OGi 250	625	504	462	295	345	307	247	191	159.7	99.2	74.5	49.4	31.3	28.3
6V 11 OGi 275	688	553	508	433	379	337	271	210	175.6	109.1	81.7	54.3	34.4	31
6V 12 OGi 300	750	604	555	473	414	368	297	229	191.5	119	89.4	59.2	37.6	33.9
2V 20 OGi 600	1530	1309	1199	1000	863	756	604	464	384	239	179	118	75.6	68
2V 30 OGi 750	1875	1512	1387	884	1036	920	741	574	479	298	223	148	96.6	85
2V 36 OGi 900	2250	1812	1664	1420	1241	1104	890	687	574	357	268	178	112.5	102

Uf = 1.75V/cell discharge power in (W) per cell at 20°C

Type	Minutes								Hours					
	1	3	5	10	15	20	30	45	1	2	3	5	8	10
12V 1 OGi 25	167	112.4	102.3	84.2	71.3	61.7	48.1	36.9	30.6	19.2	14.5	9.7	6.21	5.6
12V 2 OGi 50	296	221.1	201	165.3	140	121	94.4	72.4	60	37.7	28.6	19.2	19.2	11
12V 3 OGi 75	426	333.5	303.4	249.5	211.3	182.7	142.5	109.3	90.6	56.9	43	28.9	28.9	16.7
12V 4 OGi 100	559	441.9	402.1	330.5	249.9	242	188.8	144.8	120	75.6	57	38.2	38.2	22
12V 5 OGi 125	614	532.5	486.6	400.8	341.9	295.6	233.9	179.7	149.3	94.1	71.1	47.6	47.6	27.4
12V 6 OGi 150	701	619.7	569.2	469.5	403.7	349	280.4	215.8	179.4	113.3	85.6	57.4	57.4	33.1
6V 7 OGi 175	782	670.3	616.4	518.5	451	396.5	320.1	248.7	208	131.6	99.5	66.8	66.8	38.4
6V 8 OGi 200	894	767.8	706.3	594.2	516.8	454	366.7	284.7	238.1	151.1	114.1	76.4	76.4	44
6V 9 OGi 225	987	862	792.9	667	580.3	509.9	411.7	319.8	267.5	169.6	128	86	86	49.6
6V 10 OGi 250	1096	886.8	817.1	702.3	619	553.5	449.7	352.2	296.6	188.8	142.5	95.6	95.6	55.2
6V 11 OGi 275	1206	973.8	897.4	771.4	679.9	608.1	494	386.9	325.7	207.3	156.7	105.2	105.2	60.5
6V 12 OGi 300	1315	1064	980	843	743	664	540	423	356	227	171	115	115	66
2V 20 OGi 600	2682	2303	2119	1783	1550	1362	1100	854	714	453	342	229	229	132
2V 30 OGi 750	3287	2661	2451	2107	1857	1661	1349	1056	890	566	428	287	287	166
2V 36 OGi 900	3944	3192	2941	2529	2229	1993	1619	1269	1067	680	514	344	344	198

For more information visit www.alpha.com

Alpha Industrial Power
MTI Systems

United States
Canada

Bellingham, Washington Tel: 360 647 2360 Fax: 360 671 4936
Burnaby, British Columbia Tel: 604 439 3009 Fax: 604 439 3039

049-215-19-003 (8/05)

MTI and Alpha Industrial Power reserves the right to make changes to the products and information contained in this document without notice.
Copyright © 2005 MTI and Alpha Industrial Power. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.
member of The Alpha Group™ is a trademark of Alpha Technologies. AlphaCell™ is a trademark of Alpha Technologies.