

Flooded OGi Range

BATTERY SOLUTIONS



*Energy storage for
safe power supply*



Specifications:

- Very high operational reliability under rough operating conditions
- Low maintenance due to optimized alloy and high electrolyte reserve
- Nominal capacity 200 – 3500 Ah
- 20+ years at 20°C (68°F) in float service (80% remaining capacity from C10)
- Also designed for cyclic applications
- Low gassing due to optimized alloy (EN 50272-2)
- Optimized plate design produces increased capacities compared to DIN
- Completely recyclable

Flooded OGI Range

Technical Features

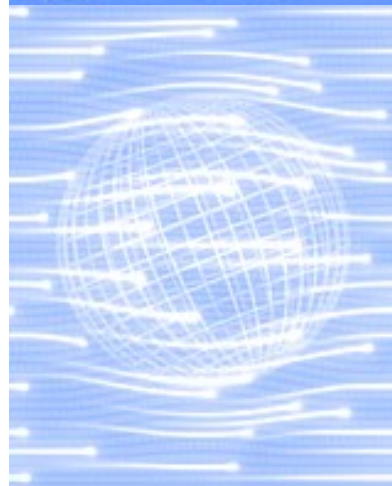
- Positive plates:** pasted plate construction with grid cast from lead calcium alloy, optimized for high corrosion resistances
- Negative plates:** rugged pasted grid construction consisting of long-life expander materials
- Separators:** Microporous and robust, for electrical separation of the positive and negative plates and optimized for low internal resistance
- Container:** high impact, transparent SAN (Styrol-Acryl-Nitril)
- Safety Vents:** cells incorporate flame retardant ceramic plugs that filter out any drops of electrolyte from the escaping gases preventing any errant spark or flame from entering the battery
- Poles:** Screw connection for easy and safe assembly and maintenance-free connection with excellent conductivity
- Post seals:** extremely high integrity post seal design to prevent electrolyte
- Connectors:** flexible, fully insulated cable connectors screwed to the terminal with an insulated screw having a probe hole on the top for electrical measurement

Standard and Compliance

- IEC 896 part 1
- BS 6290

Applications

- Telecommunications
- Emergency lighting
- Railway systems
- Power generation plants
- Photovoltaic/cyclic
- UPS systems
- Alarm security systems



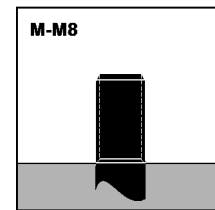
OGi Cells Technical Characteristics and Data

Cell Type	Nom. Voltage (V)	Nominal Capacity (Ah) C10 to 1.80VPC	Outline Dimensions (mm)			Weight With acid (kg)	Acid Weight (kg)	Pole (Pairs)	Internal Resistance (mohm)	Short Circuit Current	Terminal
			Length	Width	Height						
OGi 200	2	212	105	208	405	15.5	4.5	1	0.6	3300	F-M8
OGi 250	2	262	126	208	405	19	5	1	0.52	3860	F-M8
OGi 300	2	320	147	208	405	23	6	1	0.45	4580	F-M8
OGi 350	2	370	126	208	520	25.5	6.5	1	0.39	5340	F-M8
OGi 420	2	440	147	208	520	30	8	1	0.34	6100	F-M8
OGi 500	2	525	168	208	520	34.5	10	1	0.28	7560	F-M8
OGi 600	2	630	147	208	695	42	12	1	0.25	9230	F-M8
OGi 800	2	840	215	193	695	56	16	2	0.22	11800	F-M8
OGi 1000	2	1050	215	235	695	71.5	20	2	0.18	12400	F-M8
OGi 1200	2	1260	215	277	695	80	24	2	0.15	13800	F-M8
OGi 1500	2	1580	215	277	845	98	30	2	0.12	16500	F-M8
OGi 2000	2	2100	215	400	815	134	40	3	0.09	22720	F-M8
OGi 2500	2	2620	215	490	815	180	50	4	0.08	26640	F-M8
OGi 3500	2	3650	215	580	815	213	63	4	0.06	31200	F-M8

The above mentioned height can differ depending on the used vents
Acid density: 1.24 kg/L

Container, terminal and torque

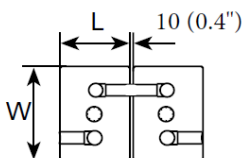
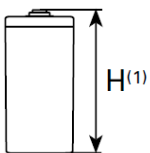
Container: SAN (acrylonitrile polystyrene),
UL 94 V-0 optional



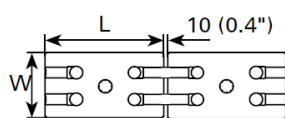
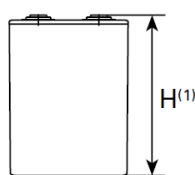
16 Nm

Drawings with terminal position

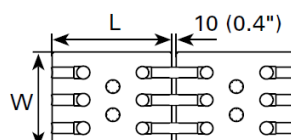
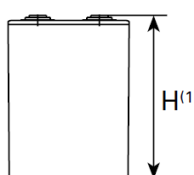
**OGi 100
up to
OGi 600**



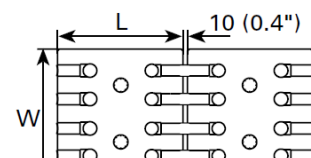
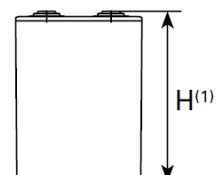
**OGi 800
up to
OGi 1500**



OGi 2000



**OGi 2500
up to
OGi 3500**



Constant Current Discharge Data

1.80 Vpc – Discharge in A at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	221	206	188	178	155	134	111	93.6	64.7	49.2	35.7	25.7	21.2
OGi 250	271	252	230	219	190	164	136	115	79.3	60.3	43.7	31.5	26.2
OGi 300	318	296	271	258	223	192	161	139	93.2	71.0	51.5	36.2	32.0
OGi 350	403	381	335	311	281	245	204	174	115	84.1	59.3	42.3	37.0
OGi 420	484	457	403	373	337	294	245	209	138	101	71.2	50.7	44.0
OGi 500	595	570	504	459	425	372	311	265	176	128	87.7	61.2	52.5
OGi 600	686	663	613	559	515	450	379	332	223	167	112	75.2	63.0
OGi 800	989	936	842	771	710	635	500	423	285	210	143	99.2	84.0
OGi 1000	1175	1115	980	912	819	723	599	516	342	253	172	123	105
OGi 1200	1235	1182	1066	989	914	811	686	605	416	322	219	150	126
OGi 1500	1544	1478	1333	1236	1143	1014	858	756	520	403	274	188	158
OGi 2000	1798	1729	1602	1500	1422	1282	1091	978	674	520	354	244	210
OGi 2500	2248	2161	2003	1875	1778	1602	1364	1223	842	650	442	305	262
OGi 3500	3148	3025	2804	2625	2489	2242	1910	1713	1179	910	619	427	365

1.75 Vpc – Discharge in A at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	270	247	220	198	174	145	121	102	67.8	51.0	37.0	26.5	21.4
OGi 250	330	303	270	242	213	177	148	125	83.0	62.5	45.3	32.5	26.5
OGi 300	389	356	318	295	250	209	174	148	97.8	73.5	53.3	38.0	32.2
OGi 350	493	457	394	357	317	268	221	185	120	88.8	61.3	43.1	37.2
OGi 420	591	548	473	428	380	322	265	222	145	107	73.6	51.8	44.4
OGi 500	729	684	592	533	485	411	340	286	185	135	90.5	62.0	52.8
OGi 600	838	797	721	652	591	499	414	357	232	173	115	76.0	63.3
OGi 800	1208	1126	990	893	812	710	551	465	299	220	150	100	84.5
OGi 1000	1450	1354	1171	1069	948	813	662	558	358	263	180	124	107
OGi 1200	1479	1404	1248	1151	1050	916	768	661	443	335	225	153	128
OGi 1500	1849	1755	1560	1439	1313	1145	960	826	554	419	281	191	160
OGi 2000	2160	2064	1891	1754	1642	1462	1226	1078	718	544	365	249	212
OGi 2500	2700	2580	2364	2192	2052	1827	1533	1348	897	680	456	311	265
OGi 3500	3780	3612	3310	3069	2872	2557	2146	1888	1256	952	639	435	368

1.70 Vpc – Discharge in A at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	316	288	250	226	189	155	126	106	69.5	51.6	37.4	26.9	21.6
OGi 250	387	353	306	277	231	190	155	129	85.2	63.2	45.9	32.9	26.7
OGi 300	456	415	360	327	272	223	183	152	101	74.4	54.0	38.8	32.5
OGi 350	577	531	450	400	347	289	234	194	124	91.3	62.4	43.8	37.4
OGi 420	693	638	540	480	417	346	281	233	149	110	74.9	52.6	44.6
OGi 500	855	792	674	600	534	444	361	302	189	140	92.4	62.3	53.0
OGi 600	976	921	816	737	654	540	442	376	236	176	117	76.3	63.5
OGi 800	1398	1301	1122	996	893	767	587	492	307	225	155	101	84.7
OGi 1000	1705	1589	1358	1215	1069	891	709	596	368	270	186	125	109
OGi 1200	1710	1611	1427	1295	1177	1005	832	709	457	342	230	155	130
OGi 1500	2138	2014	1784	1619	1471	1256	1040	886	571	428	288	194	163
OGi 2000	2504	2389	2165	1989	1831	1611	1338	1154	740	555	374	251	214
OGi 2500	3130	2986	2706	2486	2289	2014	1673	1442	925	694	467	314	267
OGi 3500	4382	4180	3789	3480	3205	2820	2343	2019	1295	971	654	440	370

Constant Current Discharge Data

1.65 Vpc – Discharge in A at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	362	330	279	243	203	164	132	107	70.9	52.2	37.6	27.0	21.7
OGi 250	444	404	342	298	249	201	162	131	86.9	63.9	46.1	33.0	26.8
OGi 300	522	475	403	351	294	237	190	154	102	75.2	54.3	39.0	32.6
OGi 350	662	606	505	436	377	307	244	200	126	93.1	63.1	44.0	37.5
OGi 420	794	728	607	524	453	369	293	240	152	112	75.7	52.8	44.8
OGi 500	977	906	757	660	584	475	377	313	192	143	93.7	62.5	53.0
OGi 600	1117	1048	899	807	715	578	466	390	241	180	119	76.7	63.6
OGi 800	1572	1468	1237	1086	968	821	621	513	315	230	159	101	84.8
OGi 1000	1947	1821	1544	1340	1174	963	749	621	378	275	191	125	110
OGi 1200	1933	1816	1598	1423	1290	1086	882	740	467	347	231	156	130
OGi 1500	2416	2270	1998	1779	1613	1358	1103	925	584	434	289	195	163
OGi 2000	2849	2710	2416	2198	2015	1735	1427	1202	756	562	375	253	214
OGi 2500	3561	3388	3020	2747	2519	2169	1784	1503	945	703	469	316	268
OGi 3500	4985	4743	4228	3846	3526	3036	2498	2104	1323	984	656	442	372

1.60 Vpc – Discharge in A at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	408	370	309	257	218	172	135	109	71.6	52.4	37.8	27.1	21.7
OGi 250	500	453	378	315	267	211	166	133	87.7	64.2	46.4	33.2	26.8
OGi 300	589	533	446	371	314	248	196	157	103	75.5	54.6	39.1	32.6
OGi 350	745	678	560	472	405	324	252	207	128	93.9	72.1	44.2	37.5
OGi 420	895	814	672	567	487	390	302	248	154	113	86.6	53.1	44.9
OGi 500	1106	1009	831	720	626	503	392	326	195	145	94.3	62.8	53.0
OGi 600	1255	1169	972	871	769	612	487	405	243	183	120	77.1	63.7
OGi 800	1733	1617	1339	1176	1036	863	651	534	321	234	163	101	84.9
OGi 1000	2183	2029	1721	1467	1273	1026	782	642	386	280	195	127	111
OGi 1200	2162	2012	1755	1554	1386	1152	921	764	471	347	232	157	130
OGi 1500	2703	2515	2194	1943	1733	1440	1151	955	589	434	290	196	164
OGi 2000	3194	3020	2662	2391	2164	1830	1498	1242	762	562	378	254	214
OGi 2500	3992	3775	3327	2989	2705	2288	1872	1553	953	703	472	317	268
OGi 3500	5589	5285	4657	4185	3787	3203	2621	2174	1334	984	661	444	373

Constant Power Discharge Data

1.80 Vpc – Discharge in W/cell at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	399	373	342	326	286	247	207	175	123	94.4	69.0	50.2	40.8
OGi 250	489	457	420	400	350	303	254	215	151	116	84.6	61.5	50.0
OGi 300	575	537	495	472	411	355	300	261	177	136	100	70.6	58.0
OGi 350	728	690	611	569	516	453	381	327	219	161	115	82.5	68.6
OGi 420	845	800	709	659	599	526	442	379	254	187	134	95.6	79.6
OGi 500	1075	1032	918	842	783	688	580	497	335	246	170	120	98.1
OGi 600	1240	1202	1117	1025	948	832	707	622	424	321	217	147	121
OGi 800	1786	1696	1534	1412	1308	1174	932	793	542	404	276	193	159
OGi 1000	2123	2021	1785	1670	1507	1337	1117	967	651	486	333	241	198
OGi 1200	2232	2142	1942	1811	1681	1500	1280	1134	790	617	424	293	242
OGi 1500	2790	2678	2428	2264	2101	1875	1600	1418	988	771	530	366	303
OGi 2000	3250	3133	2920	2746	2618	2370	2035	1835	1282	998	685	476	393
OGi 2500	4063	3916	3650	3433	3272	2963	2544	2294	1602	1247	856	595	491
OGi 3500	5688	5482	5110	4806	4581	4148	3561	3211	2242	1746	1199	833	687

1.75 Vpc – Discharge in W/cell at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	474	436	392	354	313	263	222	190	128	97.6	71.2	51.5	41.2
OGi 250	581	534	480	433	383	323	272	232	157	120	87.3	63.1	50.5
OGi 300	684	629	565	529	450	379	318	274	185	140	102	74.0	59.3
OGi 350	867	806	701	639	570	487	406	344	227	169	119	83.9	69.2
OGi 420	1006	935	813	741	661	565	471	399	263	196	138	97.3	80.3
OGi 500	1283	1208	1053	954	873	747	624	530	349	258	175	121	99.1
OGi 600	1474	1407	1283	1168	1064	907	760	663	438	331	222	148	122
OGi 800	2126	1988	1762	1598	1461	1291	1011	861	564	419	288	195	160
OGi 1000	2552	2390	2084	1913	1707	1477	1215	1034	676	502	347	242	200
OGi 1200	2604	2477	2222	2060	1890	1664	1410	1225	836	640	435	298	250
OGi 1500	3255	3096	2778	2575	2363	2080	1763	1531	1045	800	544	373	313
OGi 2000	3802	3642	3366	3138	2954	2655	2253	2002	1354	1038	704	484	404
OGi 2500	4752	4553	4208	3923	3692	3319	2816	2502	1692	1297	880	605	505
OGi 3500	6652	6374	5891	5493	5169	4646	3942	3502	2369	1816	1232	847	707

1.70 Vpc – Discharge in W/cell at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	540	494	432	395	332	277	229	194	130	98.4	72.0	52.2	41.3
OGi 250	662	605	529	484	407	339	280	237	160	121	88.2	64.0	50.6
OGi 300	780	713	623	570	479	399	330	279	189	141	103	75.3	59.5
OGi 350	987	911	779	697	611	515	423	354	233	174	120	85.0	69.4
OGi 420	1145	1056	903	809	709	597	491	411	270	202	139	98.6	80.5
OGi 500	1461	1358	1165	1047	940	793	654	553	355	266	177	121	99.1
OGi 600	1669	1579	1412	1286	1151	963	799	688	443	336	225	149	122
OGi 800	2605	2433	2110	1892	1696	1457	1151	976	624	462	323	215	177
OGi 1000	2916	2725	2350	2122	1881	1590	1284	1091	692	514	358	244	201
OGi 1200	2924	2763	2470	2261	2073	1794	1507	1297	859	651	443	301	253
OGi 1500	3655	3454	3088	2826	2591	2243	1884	1621	1074	814	554	376	316
OGi 2000	4282	4096	3745	3473	3222	2876	2424	2111	1391	1056	718	487	407
OGi 2500	5352	5120	4681	4341	4028	3595	3030	2639	1739	1320	898	609	509
OGi 3500	7492	7168	6554	6077	5639	5033	4242	3695	2435	1848	1258	853	713

Constant Power Discharge Data

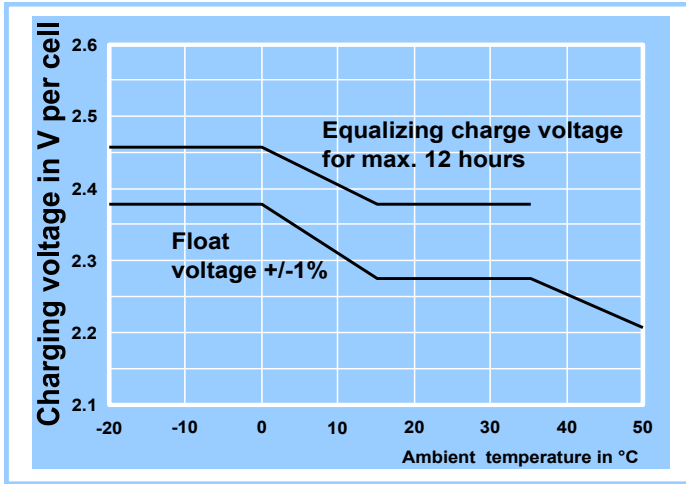
1.65 Vpc – Discharge in W/cell at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	602	552	474	417	351	288	237	194	133	99.2	72.0	52.3	41.4
OGi 250	738	676	581	511	430	353	290	238	163	122	88.2	64.1	50.8
OGi 300	869	796	686	602	508	416	342	280	192	142	104	75.6	59.9
OGi 350	1100	1015	859	748	653	540	438	363	237	177	121	85.4	69.7
OGi 420	1275	1177	996	867	757	626	508	421	275	205	141	99.0	80.9
OGi 500	1625	1516	1286	1133	1010	833	677	569	361	272	180	122	100
OGi 600	1856	1753	1529	1384	1237	1016	837	708	451	342	228	149	123
OGi 800	2612	2458	2102	1862	1676	1441	1115	931	590	435	305	196	162
OGi 1000	3236	3048	2625	2298	2031	1692	1344	1127	709	521	367	245	201
OGi 1200	3213	3039	2717	2439	2232	1908	1584	1343	875	658	444	302	253
OGi 1500	4016	3799	3396	3049	2790	2385	1980	1679	1094	823	555	378	316
OGi 2000	4735	4536	4107	3769	3486	3046	2562	2182	1418	1066	720	490	407
OGi 2500	5919	5670	5134	4711	4358	3808	3203	2728	1772	1333	900	613	509
OGi 3500	8286	7938	7188	6595	6101	5331	4484	3819	2481	1866	1260	858	713

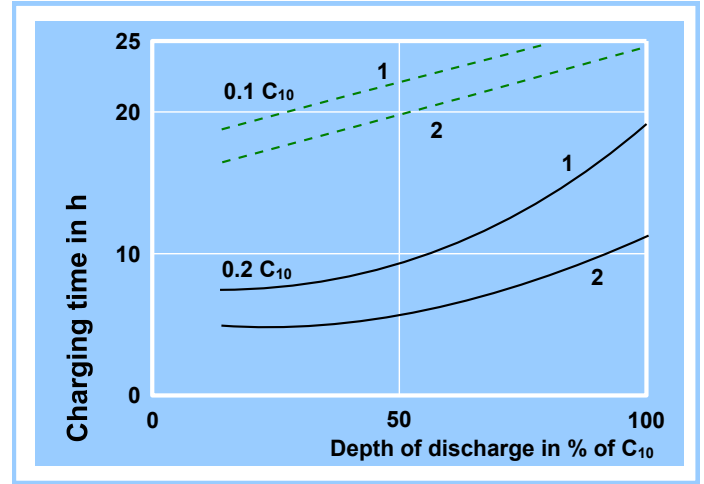
1.60 Vpc – Discharge in W/cell at 20 °C

Type	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
OGi 200	659	603	510	431	370	298	240	196	134	99.2	72.6	52.6	41.8
OGi 250	808	739	625	528	453	366	294	240	164	122	89.0	64.5	51.2
OGi 300	952	870	738	623	534	431	347	283	193	143	104	76.0	60.1
OGi 350	1205	1106	926	793	690	563	447	373	240	178	138	85.4	70.1
OGi 420	1397	1283	1074	920	800	652	519	433	278	206	160	99.0	81.3
OGi 500	1787	1647	1375	1209	1065	873	696	590	365	275	181	122	100
OGi 600	2029	1908	1608	1463	1308	1061	864	731	453	348	230	150	123
OGi 800	2800	2639	2214	1975	1762	1498	1155	964	600	443	313	196	162
OGi 1000	3528	3311	2847	2465	2165	1780	1388	1158	721	531	375	246	203
OGi 1200	3493	3283	2903	2611	2357	1999	1634	1378	880	658	446	304	255
OGi 1500	4366	4104	3629	3264	2946	2499	2043	1723	1100	823	558	380	319
OGi 2000	5162	4929	4402	4018	3678	3175	2658	2242	1426	1066	725	493	410
OGi 2500	6452	6161	5502	5022	4598	3969	3322	2803	1783	1333	906	616	513
OGi 3500	9032	8625	7702	7031	6438	5556	4651	3924	2496	1866	1269	862	718

Technical data curves



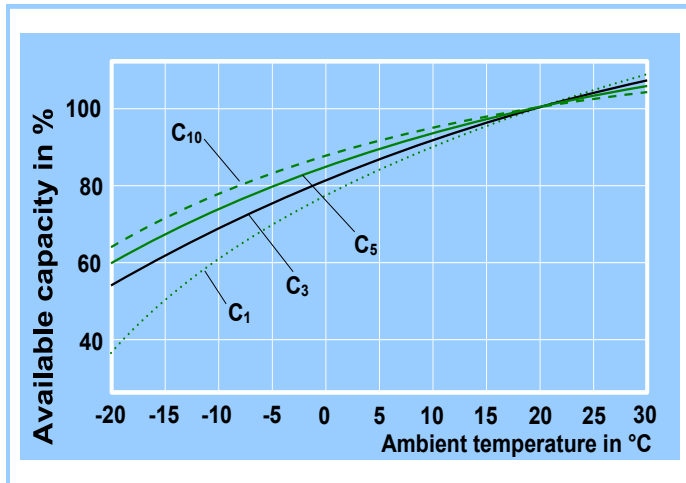
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.



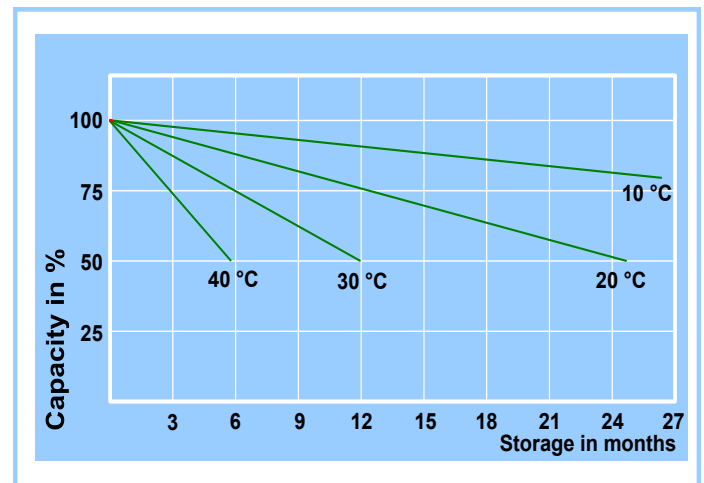
Recharging time in relation to the initial charging current at 20°

--- State of charge 100 % — State of charge 90 %

Charge voltage: 1: 2.25 V/C
 2: 2.40 V/C



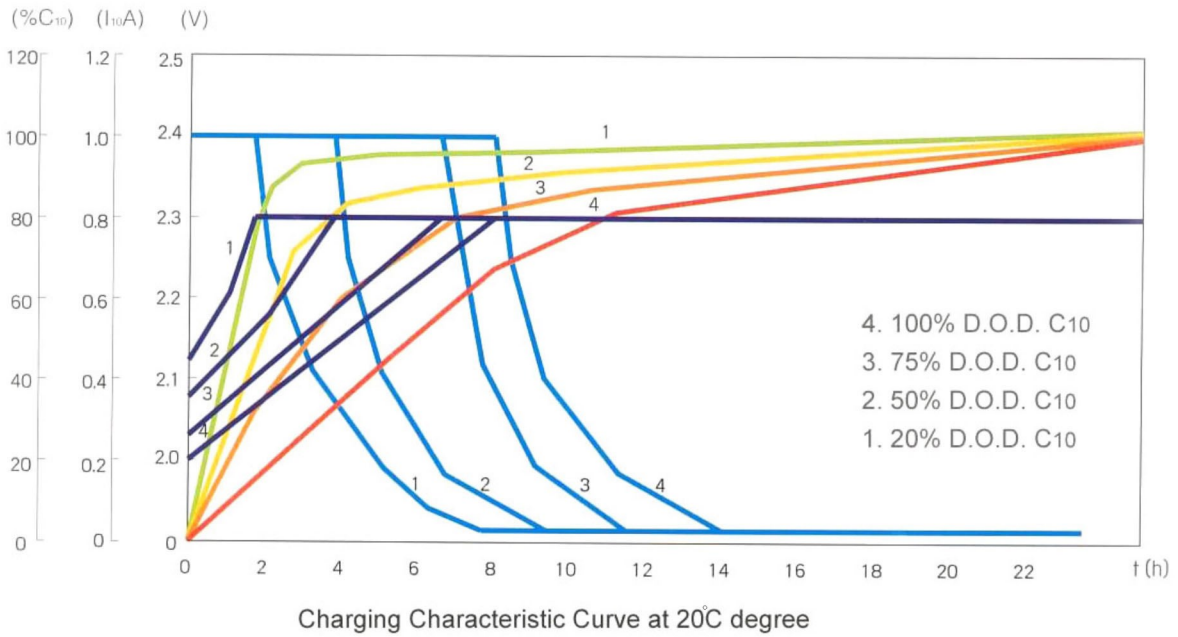
Available capacity in relation to the ambient temperature.



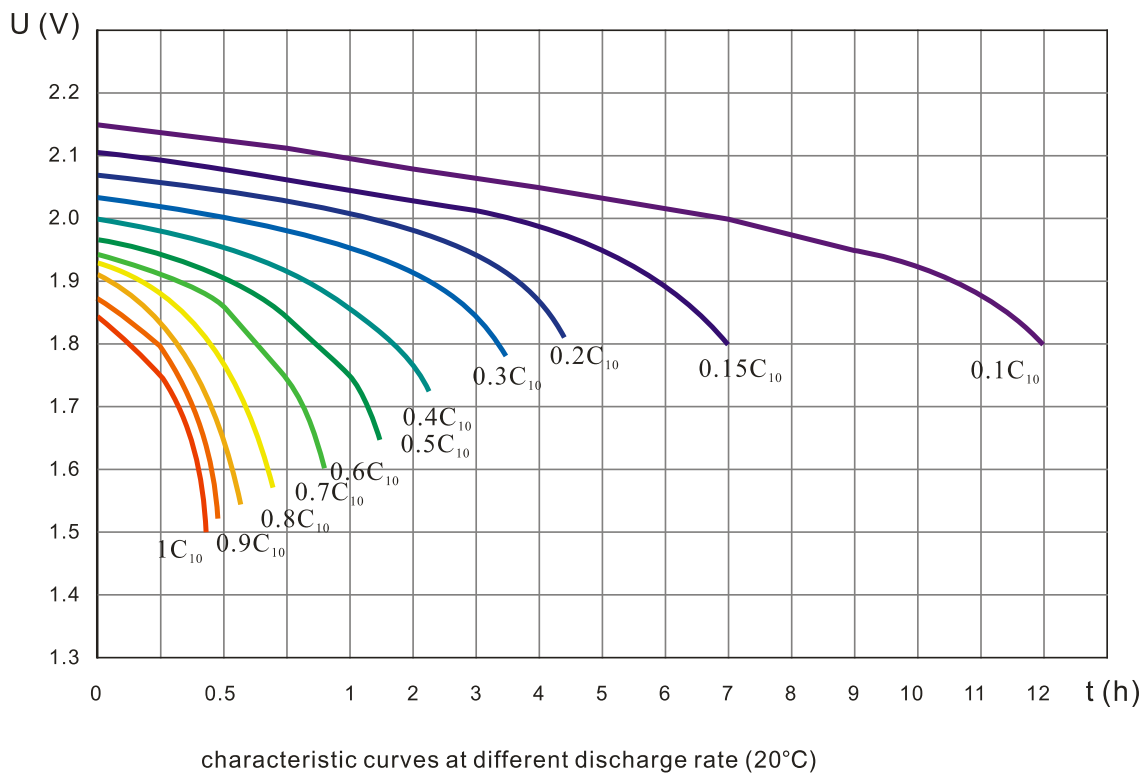
Self-discharge in relation to the storage temperature.

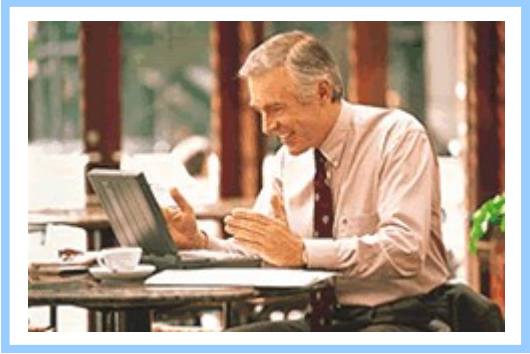
Technical data curves

EverExceed Vented OGi Range Charging Curves Charging Characteristic Curve



Characteristic curves at different discharge rate





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