



Industrial Batteries - Classic GroE

The proven, reliable energy storage

Specifications

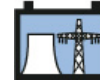
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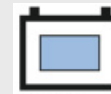
Specifications

- Classic GroE batteries bridge short and long discharge times, reliable and safely, with a high stable voltage
- Extreme low internal resistance and high current output
- Low maintenance;
no antimony in the positive plate
- Positive pure-lead, large-format plates with a laminated structure, pasted negative grid plates
- Transparent cell containers in SAN plastic make inspection and maintenance easy
- Minimal water consumption on float charge
- Low self-discharge
- Nominal capacity 75 - 2600 Ah C₁₀
- According to DIN 40738
- Terminal design with HAGEN patentpol
- The high production quality and extreme low acid density ensure a long Design life of 20 years and more

Applications



Classic GroE batteries will be used mainly in power supply utilities (power stations) because of their extreme reliability and excessive high performance.



Platé plate



Nominal capacity
75 - 2600 Ah



Single cell



Design life:
20 years



Low
maintenance



Recyclable



Special high
current performance

Technical characteristics and data

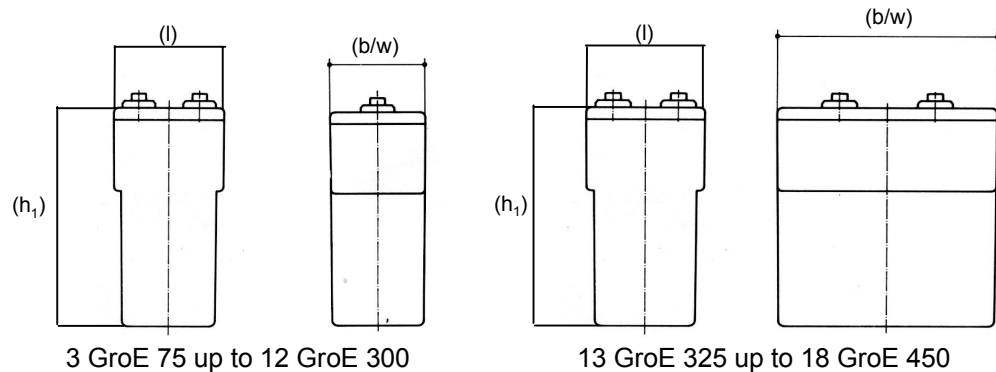


Cells with GroE 25-Plate

Type	Part number	Nominal voltage	Nominal capacity C_{10} 1,8 V/C 20 °C	Length (l)	Width (b/w)	Height up to top of cover (h_1)	Height* incl. connectors	Installed length (B/L)	Weight cell including acid	Weight acid **	Internal resistance	Short circuit current	Terminal
		V	Ah	max. mm	max. mm	max. mm	max. mm	mm	approx. kg	approx. kg	mΩ	A	
3 GroE 75	NVGR020075WC0FA	2	75	182	153	364	411	192	17.5	6.6	1.268	1624	F-M8
4 GroE 100	NVGR020100WC0FA	2	100	182	153	364	411	192	19.7	6.4	0.951	2165	F-M8
5 GroE 125	NVGR020125WC0FA	2	125	182	153	364	411	192	21.9	6.2	0.761	2706	F-M8
6 GroE 150	NVGR020150WC0FA	2	150	182	153	364	411	192	24.1	6.0	0.634	3247	F-M8
7 GroE 175	NVGR020175WC0FA	2	175	182	153	364	411	192	26.3	5.8	0.543	3788	F-M8
8 GroE 200	NVGR020200WC0FA	2	200	182	228	364	411	192	33.2	9.4	0.475	4329	F-M8
9 GroE 225	NVGR020225WC0FA	2	225	182	228	364	411	192	35.4	9.2	0.422	4871	F-M8
10 GroE 250	NVGR020250WC0FA	2	250	182	228	364	411	192	37.6	9.0	0.380	5412	F-M8
11 GroE 275	NVGR020275WC0FA	2	275	182	228	364	411	192	39.8	8.8	0.346	5953	F-M8
12 GroE 300	NVGR020300WC0FA	2	300	182	228	364	411	192	42.0	8.6	0.317	6494	F-M8
13 GroE 325	NVGR020325WC0FA	2	325	182	338	364	411	192	52.5	14.1	0.292	7035	F-M8
14 GroE 350	NVGR020350WC0FA	2	350	182	338	364	411	192	54.7	13.8	0.271	7577	F-M8
15 GroE 375	NVGR020375WC0FA	2	375	182	338	364	411	192	56.9	13.6	0.253	8118	F-M8
16 GroE 400	NVGR020400WC0FA	2	400	182	338	364	411	192	59.1	13.3	0.237	8659	F-M8
17 GroE 425	NVGR020425WC0FA	2	425	182	338	364	411	192	61.3	13.0	0.223	9200	F-M8
18 GroE 450	NVGR020450WC0FA	2	450	182	338	364	411	192	63.5	12.7	0.211	9741	F-M8

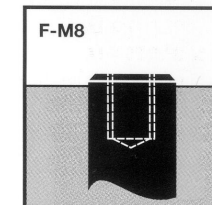
* The above mentioned height can differ depending on the used vent(s)

** Acid density $d_N = 1,22 \text{ kg/l}$



Container, terminal and torque

Container:
SAN (Styrolacrylnitril)



25 Nm



Technical characteristics and data



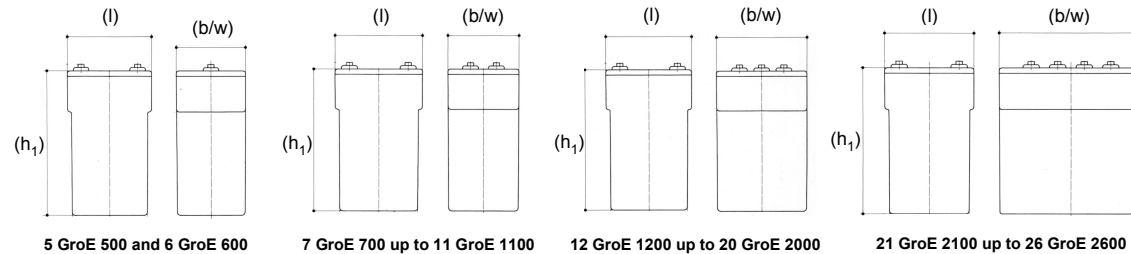
Cells with GroE 100-Plate

Type	Part number	Nominal voltage	Nominal capacity C10 1,8 V/C 20 °C	Length (l)	Width (b/w)	Height up to top of cover (h ₁)	Height* incl. connectors	Installed length (B/L)	Weight cell including acid	Weight acid **	Internal resistance	Short circuit current	Terminal	Pole pairs
		V	Ah	max. mm	max. mm	max. mm	max. mm	mm	approx. kg	approx. kg	mΩ	A		
5 GroE 500	NVGR020500WC0FA	2	500	328	268	542	590	338	95	34	0.339	6062	F-M8	1
6 GroE 600	NVGR020600WC0FA	2	600	328	268	542	590	338	104	33	0.283	7275	F-M8	1
7 GroE 700	NVGR020700WC0FA	2	700	328	268	542	590	338	113	32	0.242	8487	F-M8	2
8 GroE 800	NVGR020800WC0FA	2	800	328	268	542	590	338	122	31	0.212	9700	F-M8	2
9 GroE 900	NVGR020900WC0FA	2	900	328	268	542	590	338	131	30	0.188	10913	F-M8	2
10 GroE 1000	NVGR021000WC0FA	2	1000	328	268	542	590	338	140	29	0.169	12125	F-M8	2
11 GroE 1100	NVGR021100WC0FA	2	1100	328	268	542	590	338	149	28	0.154	13338	F-M8	2
12 GroE 1200	NVGR021200WC0FA	2	1200	328	348	542	590	338	170	39	0.141	14551	F-M8	3
13 GroE 1300	NVGR021300WC0FA	2	1300	328	348	542	590	338	179	38	0.130	15763	F-M8	3
14 GroE 1400	NVGR021400WC0FA	2	1400	328	348	542	590	338	188	37	0.121	16976	F-M8	3
15 GroE 1500	NVGR021500WC0FA	2	1500	328	348	542	590	338	197	36	0.113	18188	F-M8	3
16 GroE 1600	NVGR021600WC0FA	2	1600	328	438	542	590	338	222	49	0.106	19401	F-M8	3
17 GroE 1700	NVGR021700WC0FA	2	1700	328	438	542	590	338	231	48	0.099	20613	F-M8	3
18 GroE 1800	NVGR021800WC0FA	2	1800	328	438	542	590	338	240	47	0.094	21826	F-M8	3
19 GroE 1900	NVGR021900WC0FA	2	1900	328	438	542	590	338	249	46	0.089	23038	F-M8	3
20 GroE 2000	NVGR022000WC0FA	2	2000	328	438	542	590	338	258	45	0.084	24251	F-M8	3
21 GroE 2100	NVGR022100WC0FA	2	2100	328	528	542	590	338	285	58	0.080	25464	F-M8	4
22 GroE 2200	NVGR022200WC0FA	2	2200	328	528	542	590	338	294	57	0.077	26675	F-M8	4
23 GroE 2300	NVGR022300WC0FA	2	2300	328	528	542	590	338	303	56	0.073	27889	F-M8	4
24 GroE 2400	NVGR022400WC0FA	2	2400	328	528	542	590	338	312	55	0.070	29099	F-M8	4
25 GroE 2500	NVGR022500WC0FA	2	2500	328	573	542	590	338	325	60	0.067	30314	F-M8	4
26 GroE 2600	NVGR022600WC0FA	2	2600	328	573	542	590	338	334	59	0.065	31526	F-M8	4

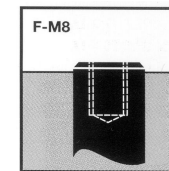
* The above mentioned height can differ depending on the used vent(s)

** Acid density $d_N = 1,22 \text{ kg/l}$

Container, terminal and torque



Container:
SAN (Styrolacrylnitril)



20 Nm
EXIDE
TECHNOLOGIES
INDUSTRIAL ENERGY

Constant current discharge



1.90 V/C - Discharge in A at 20°C											
Type	Part number	1min	5min	10min	15min	20min	30min	1 h	3 h	5 h	10 h
3 GroE	75 NVGR020075WC0FA	55.5	55.5	55.5	55.5	51.9	45.9	34.5	18.6	10.8	6.6
4 GroE	100 NVGR020100WC0FA	74.0	74.0	74.0	74.0	69.2	61.2	46.0	24.8	14.4	8.8
5 GroE	125 NVGR020125WC0FA	92.5	92.5	92.5	92.5	86.5	76.5	57.5	31.0	18.0	11.0
6 GroE	150 NVGR020150WC0FA	111.0	111.0	111.0	111.0	103.8	91.8	69.0	37.2	21.6	13.2
7 GroE	175 NVGR020175WC0FA	129.5	129.5	129.5	129.5	121.1	107.1	80.5	43.4	25.2	15.4
8 GroE	200 NVGR020200WC0FA	148.0	148.0	148.0	148.0	138.4	122.4	92.0	49.6	28.8	17.6
9 GroE	225 NVGR020225WC0FA	166.5	166.5	166.5	166.5	155.7	137.7	103.5	55.8	32.4	19.8
10 GroE	250 NVGR020250WC0FA	185.0	185.0	185.0	185.0	173.0	153.0	115.0	62.0	36.0	22.0
11 GroE	275 NVGR020275WC0FA	203.5	203.5	203.5	203.5	190.3	168.3	126.5	68.2	39.6	24.2
12 GroE	300 NVGR020300WC0FA	222.0	222.0	222.0	222.0	207.6	183.6	138.0	74.4	43.2	26.4
13 GroE	325 NVGR020325WC0FA	240.5	240.5	240.5	240.5	224.9	198.9	149.5	80.6	46.8	28.6
14 GroE	350 NVGR020350WC0FA	259.0	259.0	259.0	259.0	242.2	214.2	161.0	86.8	50.4	30.8
15 GroE	375 NVGR020375WC0FA	277.5	277.5	277.5	277.5	259.5	229.5	172.5	93.0	54.0	33.0
16 GroE	400 NVGR020400WC0FA	296.0	296.0	296.0	296.0	276.8	244.8	184.0	99.2	57.6	35.2
17 GroE	425 NVGR020425WC0FA	314.5	314.5	314.5	314.5	294.1	260.1	195.5	105.4	61.2	37.4
18 GroE	450 NVGR020450WC0FA	333.0	333.0	333.0	333.0	311.4	275.4	207.0	111.6	64.8	39.6
5 GroE	500 NVGR020500WC0FA	250.0	250.0	250.0	250.0	242.5	227.5	200.0	106.5	76.5	45.5
6 GroE	600 NVGR020600WC0FA	300.0	300.0	300.0	300.0	291.0	273.0	240.0	127.8	91.8	54.6
7 GroE	700 NVGR020700WC0FA	350.0	350.0	350.0	350.0	339.5	318.5	280.0	149.1	107.1	63.7
8 GroE	800 NVGR020800WC0FA	400.0	400.0	400.0	400.0	388.0	364.0	320.0	170.4	122.4	72.8
9 GroE	900 NVGR020900WC0FA	450.0	450.0	450.0	450.0	436.5	409.5	360.0	191.7	137.7	81.9
10 GroE	1000 NVGR021000WC0FA	500.0	500.0	500.0	500.0	485.0	455.0	400.0	213.0	153.0	91.0
11 GroE	1100 NVGR021100WC0FA	550.0	550.0	550.0	550.0	533.5	500.5	440.0	234.3	168.3	100.1
12 GroE	1200 NVGR021200WC0FA	600.0	600.0	600.0	600.0	582.0	546.0	480.0	255.6	183.6	109.2
13 GroE	1300 NVGR021300WC0FA	650.0	650.0	650.0	650.0	630.5	591.5	520.0	276.9	198.9	118.3
14 GroE	1400 NVGR021400WC0FA	700.0	700.0	700.0	700.0	679.0	637.0	560.0	298.2	214.2	127.4
15 GroE	1500 NVGR021500WC0FA	750.0	750.0	750.0	750.0	727.5	682.5	600.0	319.5	229.5	136.5
16 GroE	1600 NVGR021600WC0FA	800.0	800.0	800.0	800.0	776.0	728.0	640.0	340.5	244.8	145.6
17 GroE	1700 NVGR021700WC0FA	850.0	850.0	850.0	850.0	824.5	773.5	680.0	362.1	260.1	154.7
18 GroE	1800 NVGR021800WC0FA	900.0	900.0	900.0	900.0	873.0	819.0	720.0	383.4	275.4	163.8
19 GroE	1900 NVGR021900WC0FA	950.0	950.0	950.0	950.0	921.5	864.5	760.0	404.7	290.7	172.9
20 GroE	2000 NVGR022000WC0FA	1000.0	1000.0	1000.0	1000.0	970.0	910.0	800.0	426.0	306.0	182.0
21 GroE	2100 NVGR022100WC0FA	1050.0	1050.0	1050.0	1050.0	1018.5	955.5	840.0	447.3	321.3	191.1
22 GroE	2200 NVGR022200WC0FA	1100.0	1100.0	1100.0	1100.0	1067.0	1001.0	880.0	468.6	336.6	200.2
23 GroE	2300 NVGR022300WC0FA	1150.0	1150.0	1150.0	1150.0	1115.5	1046.5	920.0	489.9	351.9	209.3
24 GroE	2400 NVGR022400WC0FA	1200.0	1200.0	1200.0	1200.0	1164.0	1092.0	960.0	511.2	367.2	218.4
25 GroE	2500 NVGR022500WC0FA	1250.0	1250.0	1250.0	1250.0	1212.5	1137.5	1000.0	532.5	382.5	227.5
26 GroE	2600 NVGR022600WC0FA	1300.0	1300.0	1300.0	1300.0	1261.0	1183.0	1040.0	553.8	397.8	236.6

1.875 V/C - Discharge in A at 20°C											
Type	Part number	1min	5min	10min	15min	20min	30min	1 h	3 h	5 h	10 h
3 GroE	75 NVGR020075WC0FA	72.0	72.0	72.0	68.4	63.0	54.0	39.0	19.5	12.9	6.9
4 GroE	100 NVGR020100WC0FA	96.0	96.0	96.0	91.2	84.0	72.0	52.0	26.0	17.2	9.2
5 GroE	125 NVGR020125WC0FA	120.0	120.0	120.0	114.0	105.0	90.0	65.0	32.5	21.5	11.5
6 GroE	150 NVGR020150WC0FA	144.0	144.0	144.0	136.8	126.0	108.0	78.0	39.0	25.8	13.8
7 GroE	175 NVGR020175WC0FA	168.0	168.0	168.0	159.6	147.0	126.0	91.0	45.5	30.1	16.1
8 GroE	200 NVGR020200WC0FA	192.0	192.0	192.0	182.4	168.0	144.0	104.0	52.0	34.4	18.4
9 GroE	225 NVGR020225WC0FA	216.0	216.0	216.0	205.2	189.0	162.0	117.0	58.5	38.7	20.7
10 GroE	250 NVGR020250WC0FA	240.0	240.0	240.0	228.0	210.0	180.0	130.0	65.0	43.0	23.0
11 GroE	275 NVGR020275WC0FA	264.0	264.0	264.0	250.8	231.0	198.0	143.0	71.5	47.3	25.3
12 GroE	300 NVGR020300WC0FA	288.0	288.0	288.0	273.6	252.0	216.0	156.0	78.0	51.6	27.6
13 GroE	325 NVGR020325WC0FA	312.0	312.0	312.0	296.4	273.0	234.0	169.0	84.5	55.9	29.9
14 GroE	350 NVGR020350WC0FA	336.0	336.0	336.0	319.2	294.0	252.0	182.0	91.0	60.2	32.2
15 GroE	375 NVGR020375WC0FA	360.0	360.0	360.0	342.0	315.0	270.0	195.0	97.5	64.5	34.5
16 GroE	400 NVGR020400WC0FA	384.0	384.0	384.0	364.8	336.0	288.0	208.0	104.0	68.8	36.8
17 GroE	425 NVGR020425WC0FA	408.0	408.0	408.0	387.6	357.0	306.0	221.0	110.5	73.1	39.1
18 GroE	450 NVGR020450WC0FA	432.0	432.0	432.0	410.4	378.0	324.0	234.0	117.0	77.4	41.4
5 GroE	500 NVGR020500WC0FA	340.0	340.0	340.0	340.0	320.0	300.0	220.0	117.5	84.0	48.5
6 GroE	600 NVGR020600WC0FA	408.0	408.0	408.0	408.0	384.0	360.0	264.0	141.0	100.8	58.2
7 GroE	700 NVGR020700WC0FA	476.0	476.0	476.0	476.0	448.0	420.0	308.0	164.5	117.6	67.9
8 GroE	800 NVGR020800WC0FA	544.0	544.0	544.0	544.0	512.0	480.0	352.0	188.0	134.4	77.6
9 GroE	900 NVGR020900WC0FA	612.0	612.0	612.0	612.0	576.0	540.0	396.0	211.5	151.2	87.3
10 GroE	1000 NVGR021000WC0FA	680.0	680.0	680.0	680.0	640.0	600.0	440.0	235.0	168.0	97.0
11 GroE	1100 NVGR021100WC0FA	748.0	748.0	748.0	748.0	704.0	660.0	484.0	258.5	184.8	106.7
12 GroE	1200 NVGR021200WC0FA	816.0	816.0	816.0	816.0	768.0	720.0	528.0	282.0	201.6	116.4
13 GroE	1300 NVGR021300WC0FA	884.0	884.0	884.0	884.0	832.0	780.0	572.0	305.5	218.4	126.1
14 GroE	1400 NVGR021400WC0FA	952.0	952.0	952.0	952.0	896.0	840.0	616.0	329.0	235.2	135.8
15 GroE	1500 NVGR021500WC0FA	1020.0	1020.0	1020.0	1020.0	960.0	900.0	660.0	352.5	252.0	145.5
16 GroE	1600 NVGR021600WC0FA	1088.0	1088.0	1088.0	1088.0	1024.0	960.0	704.0	376.0	268.8	155.2
17 GroE	1700 NVGR021700WC0FA	1156.0	1156.0	1156.0	1156.0	1088.0	1020.0	748.0	399.5	285.6	164.9
18 GroE	1800 NVGR021800WC0FA	1224.0	1224.0	1224.0	1224.0	1152.0	1080.0	792.0	423.0	302.4	174.6
19 GroE	1900 NVGR021900WC0FA	1292.0	1292.0	1292.0	1292.0	1216.0	1140.0	836.0	446.5	319.2	184.3
20 GroE	2000 NVGR022000WC0FA	1360.0	1360.0	1360.0	1360.0	1280.0	1200.0	880.0	470.0	336.0	194.0
21 GroE	2100 NVGR022100WC0FA	1428.0	1428.0	1428.0	1428.0	1344.0	1260.0	924.0	493.5	352.8	203.7
22 GroE	2200 NVGR022200WC0FA	1496.0	1496.0	1496.0	1496.0	1408.0	1320.0	968.0	517.0	369.6	213.4
23 GroE	2300 NVGR022300WC0FA	1564.0	1564.0	1564.0	1564.0	1472.0	1380.0	1012.0	540.5	386.4	223.1
24 GroE	2400 NVGR022400WC0FA	1632.0	1632.0	1632.0	1632.0	1536.0	1440.0	1056.0	564.0	403.2	232.8
25 GroE	2500 NVGR022500WC0FA	1700.0	1700.0	1700.0	1700.0	1600.0	1500.0	1100.0	587.5	420.0	242.5
26 GroE	2600 NVGR022600WC0FA	1768.0	1768.0	1768.0	1768.0	1664.0	1560.0	1144.0	611.0	436.8	252.2



