



Industrial Batteries - Classic GroE

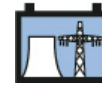
The proven, reliable energy storage

Specifications

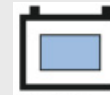
Specifications

- Classic GroE batteries bridge short and long discharge times, reliably and safely, with a high stable voltage
- Extremely 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
- Designed in accordance with DIN 40738
- Terminal design with HAGEN Patentpol
- The high production quality and the low acid density ensure an extremely long design life of 25 years

Applications



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



Platé plate



Nominal capacity
75 - 2600 Ah



Single cell



Design life:
25 years



Low
maintenance



Recyclable



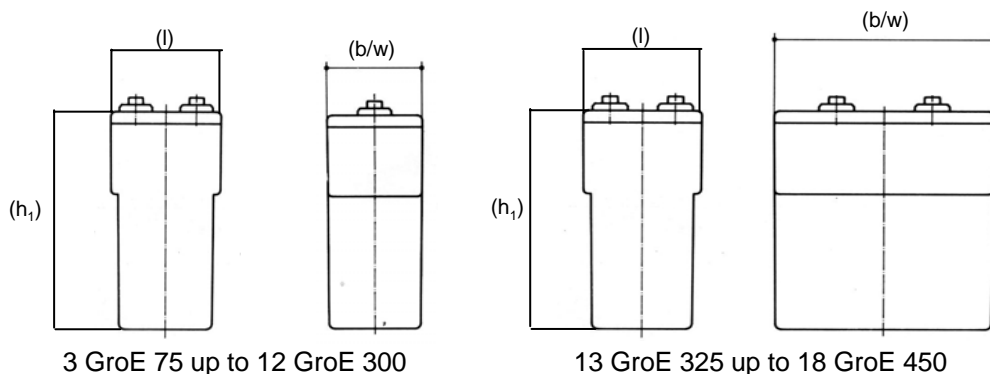
Special high
current performance

Cells with GroE 25-Plate

Type	Part number	Nominal voltage	Capacity C ₁₀ 1.8 V/C 20 °C	Nominal capacity C ₁₀ acc. to DIN 40738	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	Ah	max. mm	max. mm	max. mm	max. mm	mm	approx. kg	approx. kg	mΩ	A		
3 GroE 75	NVGR020075WC0FA	2	75	75	182	153	364	411	192	17.5	6.6	1.268	1624	F-M8	1
4 GroE 100	NVGR020100WC0FA	2	100	100	182	153	364	411	192	19.7	6.4	0.951	2165	F-M8	1
5 GroE 125	NVGR020125WC0FA	2	125	125	182	153	364	411	192	21.9	6.2	0.761	2706	F-M8	1
6 GroE 150	NVGR020150WC0FA	2	150	150	182	153	364	411	192	24.1	6.0	0.634	3247	F-M8	1
7 GroE 175	NVGR020175WC0FA	2	175	175	182	153	364	411	192	26.3	5.8	0.543	3788	F-M8	1
8 GroE 200	NVGR020200WC0FA	2	200	200	182	228	364	411	192	33.2	9.4	0.475	4329	F-M8	1
9 GroE 225	NVGR020225WC0FA	2	225	225	182	228	364	411	192	35.4	9.2	0.422	4871	F-M8	1
10 GroE 250	NVGR020250WC0FA	2	250	250	182	228	364	411	192	37.6	9.0	0.380	5412	F-M8	1
11 GroE 275	NVGR020275WC0FA	2	275	275	182	228	364	411	192	39.8	8.8	0.346	5953	F-M8	1
12 GroE 300	NVGR020300WC0FA	2	300	300	182	228	364	411	192	42.0	8.6	0.317	6494	F-M8	1
13 GroE 325	NVGR020325WC0FA	2	325	325	182	338	364	411	192	52.5	14.1	0.292	7035	F-M8	2
14 GroE 350	NVGR020350WC0FA	2	350	350	182	338	364	411	192	54.7	13.8	0.271	7577	F-M8	2
15 GroE 375	NVGR020375WC0FA	2	375	375	182	338	364	411	192	56.9	13.6	0.253	8118	F-M8	2
16 GroE 400	NVGR020400WC0FA	2	400	400	182	338	364	411	192	59.1	13.3	0.237	8659	F-M8	2
17 GroE 425	NVGR020425WC0FA	2	425	425	182	338	364	411	192	61.3	13.0	0.223	9200	F-M8	2
18 GroE 450	NVGR020450WC0FA	2	450	450	182	338	364	411	192	63.5	12.7	0.211	9741	F-M8	2

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

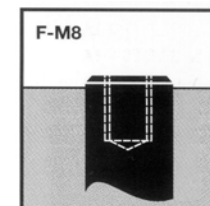
** Acid density d_N = 1,22 kg/l



Container, terminal and torque

Container:

SAN (Styrene Acrylonitrile)



20 Nm

Technical characteristics and data



Cells with GroE 100-Plate

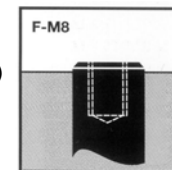
Type	Part number	Nominal voltage	Capacity C10 1.8 V/C 20 °C	Nominal capacity C10 acc. to DIN 40738	Length (l)	Width (b/w)	Height up to top of cover (h ₁)	Height* incl. connectors	Installed length (B/L)	Weight cell including acid	Weight acid **	Internal resistance	Short circuit current	Terminal	Pole pairs
		V	Ah	Ah	max. mm	max. mm	max. mm	max. mm	mm	approx. kg	approx. kg	mΩ	A		
5 GroE 500	NVGR020500WC0FA	2	535	500	328	268	542	590	338	95	34	0.339	6062	F-M8	1
6 GroE 600	NVGR020600WC0FA	2	642	600	328	268	542	590	338	104	33	0.283	7275	F-M8	1
7 GroE 700	NVGR020700WC0FA	2	749	700	328	268	542	590	338	113	32	0.242	8487	F-M8	2
8 GroE 800	NVGR020800WC0FA	2	856	800	328	268	542	590	338	122	31	0.212	9700	F-M8	2
9 GroE 900	NVGR020900WC0FA	2	963	900	328	268	542	590	338	131	30	0.188	10913	F-M8	2
10 GroE 1000	NVGR021000WC0FA	2	1070	1000	328	268	542	590	338	140	29	0.169	12125	F-M8	2
11 GroE 1100	NVGR021100WC0FA	2	1177	1100	328	268	542	590	338	149	28	0.154	13338	F-M8	2
12 GroE 1200	NVGR021200WC0FA	2	1284	1200	328	348	542	590	338	170	39	0.141	14551	F-M8	3
13 GroE 1300	NVGR021300WC0FA	2	1391	1300	328	348	542	590	338	179	38	0.130	15763	F-M8	3
14 GroE 1400	NVGR021400WC0FA	2	1498	1400	328	348	542	590	338	188	37	0.121	16976	F-M8	3
15 GroE 1500	NVGR021500WC0FA	2	1605	1500	328	348	542	590	338	197	36	0.113	18188	F-M8	3
16 GroE 1600	NVGR021600WC0FA	2	1712	1600	328	438	542	590	338	222	49	0.106	19401	F-M8	3
17 GroE 1700	NVGR021700WC0FA	2	1819	1700	328	438	542	590	338	231	48	0.099	20613	F-M8	3
18 GroE 1800	NVGR021800WC0FA	2	1926	1800	328	438	542	590	338	240	47	0.094	21826	F-M8	3
19 GroE 1900	NVGR021900WC0FA	2	2033	1900	328	438	542	590	338	249	46	0.089	23038	F-M8	3
20 GroE 2000	NVGR022000WC0FA	2	2140	2000	328	438	542	590	338	258	45	0.084	24251	F-M8	3
21 GroE 2100	NVGR022100WC0FA	2	2247	2100	328	528	542	590	338	285	58	0.080	25464	F-M8	4
22 GroE 2200	NVGR022200WC0FA	2	2354	2200	328	528	542	590	338	294	57	0.077	26675	F-M8	4
23 GroE 2300	NVGR022300WC0FA	2	2461	2300	328	528	542	590	338	303	56	0.073	27889	F-M8	4
24 GroE 2400	NVGR022400WC0FA	2	2568	2400	328	528	542	590	338	312	55	0.070	29099	F-M8	4
25 GroE 2500	NVGR022500WC0FA	2	2675	2500	328	573	542	590	338	325	60	0.067	30314	F-M8	4
26 GroE 2600	NVGR022600WC0FA	2	2782	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 kg/l

Container, terminal and torque

Container:
SAN (Styrene Acrylonitrile)



20 Nm



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