

Industrial Batteries / Network Power

Classic OCSM



















Industrial Batteries

The powerful range of Network Power

Energy storage solutions for critical systems that require uninterrupted power supply. GNB® Industrial Power offers powerful batteries for your individual needs. The below table is only indicative and depends on customers' specific applications. For more information please ask a GNB sales representative.

Applica-	- Battery ranges																			
tions	Sonnenschein						Mara	thon	Sprinter			Absolyte Powerfit			Classic					
	A400/ A600	A400 FT	A500	A700	SOLAR	RAIL	Power Cycle	M - FT	M/L/ XL	S	P/XP	XP - FT	GP/GX	S300	GRoE	OCSM	OPzS	Energy Bloc/OGi	Solar	rail
Telecom	•	•	•	•			•	•	•	•		•	•			•	•	•		
UPS		•	•	•			•	•	•	•	•	•	•			•		•		
Emergency lighting	•		•						•		•	•		•			•	•		
Security	•		•	•							•	•		•		•	•			
Utility	•	•		•			•	•	•	•			•		•	•	•	•		
Railways	•	•	•	•		•	•	•	•	•			•			•		•		•
Photovoltaic							•						•						•	
Universal	•	•	•	•			•	•	•	•	•	•	•	•		•	•	•		

The GNB Network Power brand overview











- > VRLA batteries (Valve Regulated Lead Acid) in which the electrolyte is fixed in an absorbent glass mat (AGM)
- > Excellent high current capability
- > Very economical
- > Maintenance-free (no topping up)
- > VRLA batteries (Valve Regulated Lead Acid) in which the electrolyte is fixed in a gel (dryfit technology)
- > Inventor of Gel technology
- > Highest reliability, even in non-optimal conditions
- > Particularly suitable for cyclic applications
- > Maintenance-free (no topping up)



- > Extreme reliability, proven over decades
- > Low maintenance
- > Further information about service is available on page 10









Safe energy storage for stationary battery systems

Classic OCSM batteries are a powerful and reliable energy supply with high current discharge capability due to a unique negative electrode construction and excellent energy storage capacity over the exceptional long life.

Your benefits:

- > High current discharge capability enhanced power output
- > High cyclic application capacity longer lifetime
- > Low maintenance effort saving costs
- > Completely recyclable low CO, footprint



Specifications:

- > Nominal capacity 170 3804 Ah C₁₀
- > 20 years design life and service life at 20 °C ambient temperature (80 % remaining capacity from C₁,)
- > Positive tubular plate and negative CSM (copper) plate technology
- > Also available in dry charged condition with separate electrolyte
- > Container made from high quality transparent plastics
- > Flame arresting ceramic plugs according to DIN 40 740 are available if required
- > Complies with the international standard IEC 60896-11
- > Manufactured in Europe in our ISO 9001 certified production plants
- > Low gassing due to antimony alloy $<3\,\%$ (EN 50272-2)



20 years design life



Nominal capacity 170 – 3804 Ah



Single cell



Tubular plate



Recyclable



Low maintenance



Technical data

Technical characteristics and data

Туре	Part number	Nom. voltage	Nominal capacity C ₁₀ 1.80 Vpc 20 °C	Length (I)	Width (b/w)	Height * (h)	Installed length	Weight cell incl.	Weight acid**	Internal resistance	Short circuit current	Terminal	Pole pairs
			Ah	max. mm	max. mm	max. mm	mm	approx. kg	approx. kg	m0hm	Α		
2 OCSM 160 LA	NV0C020160WC0FA	2	170	126	208	522	136	19.8	8.40	1.34	1567	F-M8	1
3 OCSM 240 LA	NV0C020240WC0FA	2	255	126	208	522	136	22.6	8.20	0.89	2351	F-M8	1
4 OCSM 320 LA	NV0C020320WC0FA	2	340	126	208	522	136	25.1	7.90	0.67	3184	F-M8	1
5 OCSM 400 LA	NV0C020400WC0FA	2	425	126	208	522	136	28.3	8.20	0.53	3918	F-M8	1
6 OCSM 480 LA	NV0C020480WC0FA	2	510	147	208	522	157	33.1	9.70	0.44	4701	F-M8	1
7 OCSM 560 LA	NV0C020560WC0FA	2	595	168	208	522	178	37.9	11.0	0.38	5485	F-M8	1
5 OCSM 575 LA	NV0C020575WC0FA	2	591	147	208	698	157	41.8	13.4	0.43	4808	F-M8	1
6 OCSM 690 LA	NVOC020690WC0FA	2	709	147	208	698	157	45.4	13.3	0.36	5769	F-M8	1
7 OCSM 805 LA	NV0C020805WC0FA	2	827	215	193	698	225	58.3	17.3	0.31	6731	F-M8	2
8 OCSM 920 LA	NV0C020920WC0FA	2	946	215	193	698	225	61.9	17.7	0.27	7692	F-M8	2
9 OCSM 1035 LA	NVOC021035WC0FA	2	1064	215	235	698	225	71.6	21.6	0.24	8654	F-M8	2
10 OCSM 1150 LA	NVOC021150WC0FA	2	1182	215	235	698	225	75.7	21.8	0.21	9615	F-M8	2
11 OCSM 1265 LA	NVOC021265WC0FA	2	1300	215	277	698	225	86.3	26.5	0.19	10577	F-M8	2
12 OCSM 1380 LA	NVOC021380WC0FA	2	1418	215	277	698	225	88.9	26.4	0.18	11538	F-M8	2
11 OCSM 1595 LA	NVOC021595WC0FA	2	1743	215	277	848	225	106	33.3	0.19	10820	F-M8	2
12 OCSM 1740 LA	NVOC021740WC0FA	2	1902	215	277	848	225	110	32.8	0.17	11803	F-M8	2
14 OCSM 2030 LA	NVOC022030WC0FA	2	2219	215	400	824	225	143	47.8	0.15	13770	F-M8	3
16 OCSM 2320 LA	NVOC022320WC0FA	2	2536	215	400	824	225	152	46.9	0.13	15738	F-M8	3
18 OCSM 2610 LA	NVOC022610WC0FA	2	2853	215	490	824	225	178	57.9	0.11	17705	F-M8	4
20 OCSM 2900 LA	NVOC022900WC0FA	2	3170	215	490	824	225	186	55.6	0.10	19672	F-M8	4
22 OCSM 3190 LA	NVOC023190WC0FA	2	3487	215	580	824	225	214	69.0	0.09	21639	F-M8	4
24 OCSM 3480 LA	NVOC023480WC0FA	2	3804	215	580	824	225	222	67.1	0.08	23607	F-M8	4

^{*}The above mentioned height can differ depending on the used vent(s). **Acid density dN = 1.26 kg/l $\,$

Container, terminal and torque

> Container: SAN (Styrene acrylonitrile)

Figures are also valid for dry charged version. Change »W« (wet) to »D« (dry) in the part number. E.g.:

> filled and charged: NVOC020160 W C0FA > dry charged: NVOC020160 D C0FA

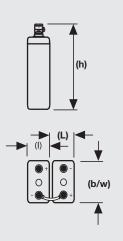


20 Nm

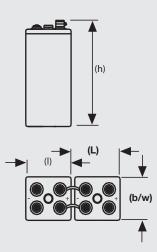


Drawings

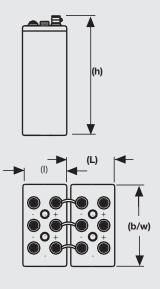
2 OCSM 160 LA - 6 OCSM 690



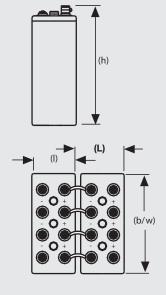
7 OCSM 805 LA -12 OCSM 1740 LA



14 OCSM 2030 LA - 16 OCSM 2320 LA



18 OCSM 2610 LA -24 OCSM 3480 LA



Not to scale!





Battery Service - Energy Solutions

Keeping your business on the move

GNB® is the Expert

Who could do this job better than the professionals of a company with more than 100 years of experience in battery development, production and application?

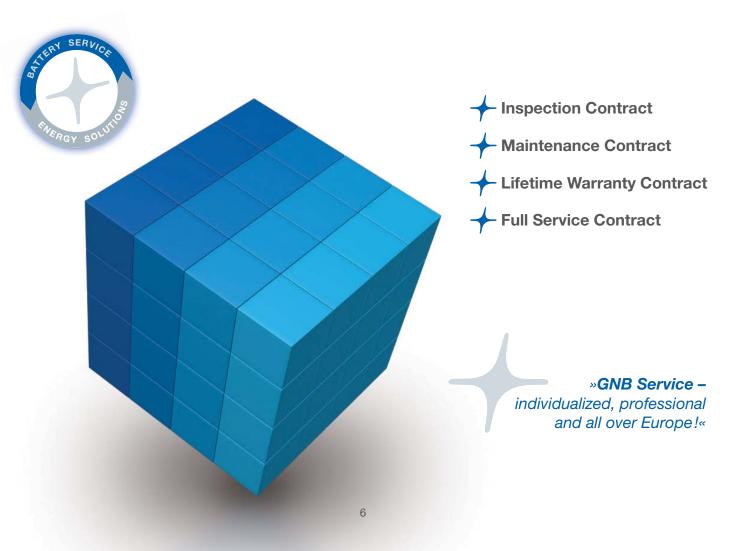
Leave the responsibility for the maintenance of your batteries and chargers to the professionals: a GNB service contract provides you with exceptional economic advantages through time savings, cost savings and safety!





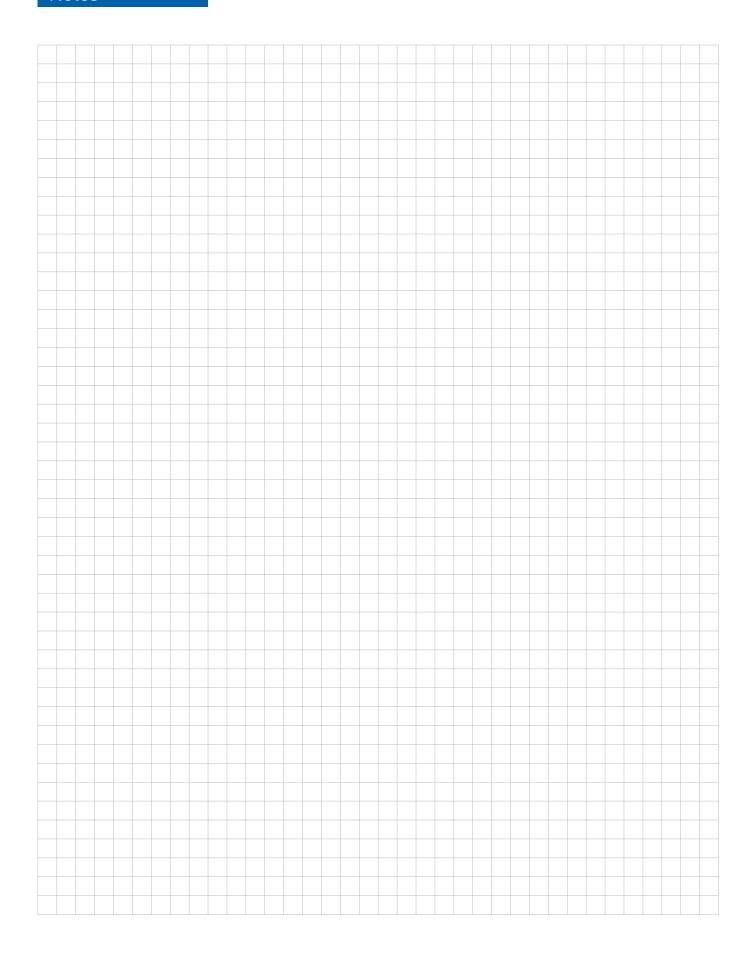
Installation of Batteries and Systems for Network Power

- > Development of complete turnkey solutions from the design concept to installation and commissioning.
- > Installation according to legal and safety regulations including CE certification by approved installation technicians.
- > Training and certification of external installation technicians according to CE regulations.





Notes







Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 120 years of experience in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and automotive applications.

GNB Industrial Power – A division of Exide Technologies – offers an extensive range of storage products and services, including solutions for telecommunication systems, railway applications, mining, photovoltaic (solar energy), uninterrupted power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. An integrated approach to manufacturing, distributing and recycling of lead-acid batteries has been developed to ensure a safe and responsible life cycle for all of its products.