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Advanced Battery Systems Inc
Master stocking distributor for North America

GNB[®]
INDUSTRIAL POWER
A Division of Exide Technologies

Block batteries / Motive Power

Product Overview



»**Durability through
innovation**«



dryfit® block batteries

Sonnenschein M (1,000 cycles gel battery)

Sonnenschein, with the robust and reliable dryfit® technology, takes the next step in product evolution: The innovative M technology which enables gel batteries to give 1,000 cycles at 70% depth of discharge.

With the experience of more than 120 years in battery manufacturing and continuous further development of the dryfit® gel technology, Sonnenschein managed to significantly extend the cycle life durability of gel batteries. The results are Sonnenschein M batteries with an excellent total cost of ownership for all traction purposes.



Main technical features and benefits:

- > Battery technology: VRLA (valve regulated lead-acid)
- > Maintenance-free (no topping up during the whole service life)
- > Very high intrinsic safety
- > Extremely robust and reliable
- > Low self-discharge rate
- > Up to 80% depth of discharge possible
- > 1,000 cycles in accordance with IEC 60254-1



NEW!

Technical characteristics and data

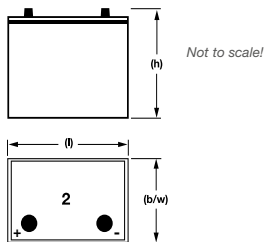
Type	Nominal voltage V	Nominal capacity C ₅ (30 °C) Ah	Nominal capacity C ₂₀ (30 °C) Ah	Length (l) max. mm	Width (b/w) max. mm	Height (h) max. mm	Weight* kg	Terminal	Terminal position
GF 12 076 H	12	76	86	330	171	236	28.8	A-Terminal	2

* The weights may exhibit a tolerance of +/-5%

Drawings with terminal position, terminal and torque



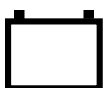
8 Nm



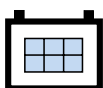
Specifications



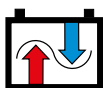
Nominal capacity
76 Ah (C₅)
86 Ah (C₂₀)



Block battery



Grid plate



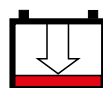
1,000 cycles in accordance with IEC 60254-1



Recyclable



Valve regulated lead-acid battery



Proof against deep discharge



Maintenance-free (no topping up)



dryfit® block batteries

Sonnenschein GF-Y Range (dryfit® A500 cyclic)

The GF-Y block battery range is particularly suitable for the leisure and mobility market (wheelchairs, scooters, golf carts and electric boats).

Main technical features and benefits:

- > Battery technology: VRLA (valve regulated lead-acid)
- > Maintenance-free (no topping up during the whole service life)
- > Very high intrinsic safety
- > Robust, safe and reliable
- > Low self-discharge rate
- > 450 cycles in accordance with IEC 60254-1
- > Product range:
 - 12 V block batteries
 - 14 Ah up to 93,5 Ah (C5)
 - 15 Ah up to 110 Ah (C20)

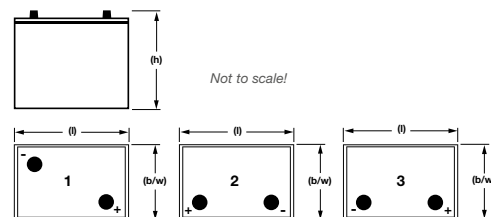
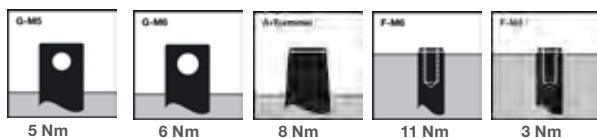


Technical characteristics and data

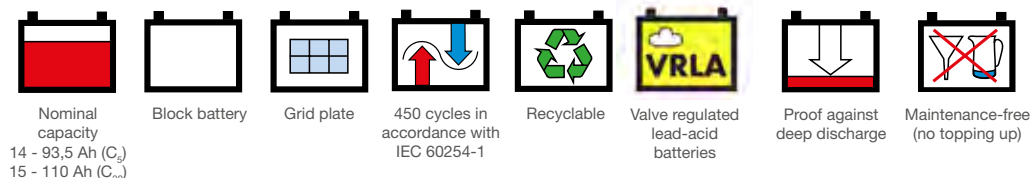
Type	Nominal voltage V	Nominal capacity C ₅ (30 °C) Ah	Nominal capacity C ₂₀ (30 °C) Ah	Length (l) max. mm	Width (b/w) max. mm	Height (h) max. mm	Weight** kg	Terminal	Terminal position
GF 12 014 Y F	12	14.0	15.0	181	76.0	167	6.00	G-M5	3
GF 12 022 Y T	12	22.2	24.0	167	176	126	8.50	F-M5	3
GF 12 025 Y G	12	25.0	28.0	197	132	180	11.1	G-M6	2
GF 12 033 Y 1	12	32.5	38.0	210	175	175	14.6	A-Terminal	3
GF 12 033 Y G1*/G2	12	32.5	38	210	175	175	14.6	G-M6	3
GF 12 040 Y	12	40	48	242	175	190	17.5	A-Terminal	3
GF 12 044 Y	12	44	50	261	135	230	18.0	A-Terminal	3
GF 12 051 Y 1/ 2*	12	51	56	278	175	190	20.8	A-Terminal	3
GF 12 051 Y G1	12	51	56	278	175	190	20.8	G-M6	3
GF 12 052 Y 0	12	52.7	60	261	170	178	19.8	F-M6	2
GF 12 063 Y 0	12	63	70	261	171	210	22.2	F-M6	2
GF 12 065 Y*	12	65	78	353	175	190	26.8	A-Terminal	3
GF 12 072 Y	12	72	80	330	171	236	28.2	A-Terminal	2
GF 12 094 Y	12	93.5	110	286	269	230	38.5	A-Terminal	1

* with hold down ** The weights may exhibit a tolerance of +/-5%

Drawings with terminal position, terminal and torque



Specifications



dryfit® block batteries

Sonnenschein GF-V Range (dryfit® traction block)

The GF-V block battery range is designed for hard industrial use. This includes applications such as cleaning machines, pallet trucks, automatic guided vehicles, mobile elevating work platforms, electric cars and buses.

Main technical features and benefits:

- > Battery technology: VRLA (valve regulated lead-acid)
- > Maintenance-free (no topping up during the whole service life)
- > Very high intrinsic safety
- > Robust, safe and reliable
- > Low self-discharge rate
- > 700 cycles in accordance with IEC 60254-1
- > Product range:
 - 6 V and 12 V block batteries
 - 50 Ah up to 240 Ah (C₅)
 - 55 Ah up to 270 Ah (C₂₀)

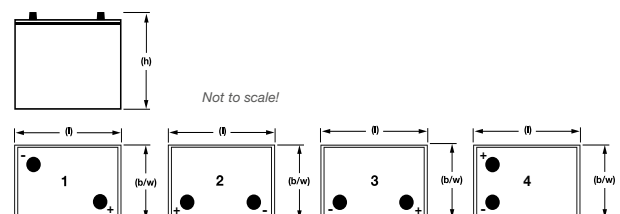


Technical characteristics and data

Type	Nominal voltage V	Nominal capacity C ₅ (30 °C) Ah	Nominal capacity C ₂₀ (30 °C) Ah	Length (l) max. mm	Width (b/w) max. mm	Height (h) max. mm	Weight* kg	Terminal	Terminal position
GF 06 160 V1	6	160	196	246	192	275	29.0	A-Terminal	1
GF 06 180 V	6	180	200	246	192	275	30.0	A-Terminal	1
GF 06 180 V Q	6	180	200	246	192	284	30.5	F-M10	1
GF 06 240 V	6	240	270	311	183	358	47.0	A-Terminal	1
GF 12 050 V	12	50.0	55.0	278	175	190	18.0	A-Terminal	3
GF 12 050 V G	12	50.0	55.0	278	175	190	18.0	G-M6	3
GF 12 076 V	12	76	86	330	171	236	28.8	A-Terminal	2
GF 12 090 V	12	90	98	513	189	219	36.5	A-Terminal	4
GF 12 105 V	12	105	120	345	174	283	37.5	A-Terminal	3
GF 12 110 V	12	110	120	513	223	219	45.5	A-Terminal	4
GF 12 160 V	12	160	196	518	274	238	62.5	A-Terminal	4

* The weights may exhibit a tolerance of +/-5%

Drawings with terminal position, terminal and torque



Specifications

Nominal capacity 50 - 240 Ah (C ₅) 55 - 270 Ah (C ₂₀)	Block battery	Grid plate	700 cycles in accordance with IEC 60254-1	Recyclable	Valve regulated lead-acid batteries	Proof against deep discharge	Maintenance-free (no topping up)

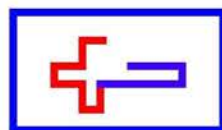




Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 120 years of experience in the development 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.



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GNB[®] INDUSTRIAL POWER devises enduring energy concepts that convince with efficiency, flexibility and profitability.