

# BATTERIES

## CYCLIC BATTERIES

### ABOUT SONNENSCHN



Sonnenschein is part of the Exide group and is a leading manufacturer in the world of batteries. Sonnenschein is a pioneer in gel batteries and are extremely suitable for cyclic applications in numerous industrial applications as well as in wheelchairs, golf carts,...

GF-V series: very suitable for industrial use such as aerial work platforms, stackers and cleaning machines.

GF-Y series: ideal for lighter applications such as scooters, wheelchairs and lower traction applications.

### SONNENSCHN GF-Y RANGE (DRYFIT® A500 CYCLIC)



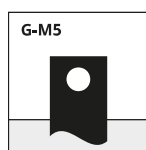
The GF-Y block battery range is particularly suitable for the leisure and mobility market (wheelchairs, scooters, golf carts and electric boats)

#### Main technical features and benefits:

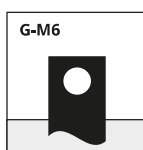
- Battery technology: VRLA (valve regulated lead-acid)
- Maintenance-free (no topping up during the whole service life)
- Very high intrinsic safety
- Robust, safe and reliable
- Low self-discharge rate
- 450 cycles in accordance with IEC 60254-1
- Product range:
  - 12 V block batteries
  - 14 Ah up to 93.5 Ah (C5)
  - 15 Ah up to 110 Ah (C20)

#### TECHNICAL CHARACTERISTICS AND DATA

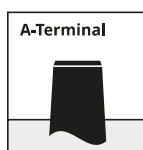
Model	Nominal capacity C5 (30 °C) Ah	Nominal capacity C20 (30 °C) Ah	Length max mm	width max mm	Height max mm	Weight kg	Terminal	Terminal position	REF
<b>12 V</b>									
GF12014YF	14	15	181	76	167	6	G-M5	3	<a href="#">167TA9998</a>
GF12022YF	22.2	24	167	176	126	9.6	G-M5	3	<a href="#">167TA9999</a>
GF12025YG	25	28	197	132	180	11.1	G-M5	2	<a href="#">168TA1000</a>
GF12033Y1	32.5	38	210	175	175	14.6	A-terminal	3	<a href="#">168TA1001</a>
GF12033YG1	32.5	38	210	175	175	14.6	G-M6	3	<a href="#">168TA1002</a>
GF12033YG2	32.5	38	210	175	175	14.6	G-M6	3	<a href="#">168TA1003</a>
GF12040Y	40	48	242	175	190	17.5	A-terminal	3	<a href="#">168TA1004</a>
GF12044Y	44	50	261	135	230	19	A-terminal	3	<a href="#">168TA1005</a>
GF12051Y1	51	56	278	175	190	20.8	A-terminal	3	<a href="#">168TA1006</a>
GF12051Y2	51	56	278	175	190	20.8	A-terminal	3	<a href="#">168TA1078</a>
GF12051YG1	51	56	278	175	190	20.8	G-M6	3	<a href="#">168TA1007</a>
GF12052YO	52.7	60	261	170	178	19.8	F-M6	2	<a href="#">168TA1008</a>
GF12063YO	63	70	261	171	210	23	F-M6	2	<a href="#">168TA1009</a>
GF12065Y	65	78	363	175	190	26.8	A-terminal	3	<a href="#">168TA1010</a>
GF12072Y	72	80	330	171	236	30	A-terminal	2	<a href="#">168TA1011</a>
GF12094Y	93.5	110	286	269	230	38.5	A-terminal	1	<a href="#">168TA1012</a>



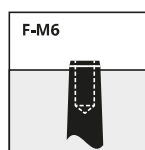
5 Nm



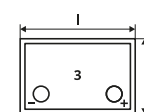
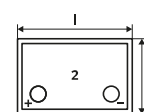
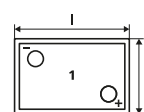
6 Nm



8 Nm



11 Nm



## SONNENSCHIN 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

Model	Nominal capacity C5 (30 °C) Ah	Nominal capacity C20 (30 °C) Ah	Length max mm	width max mm	Height max mm	Weight kg	Terminal	Terminal position	REF
<b>6 V</b>									
GF06160V1	160	196	246	192	275	29	A-terminal	1	<a href="#">152TA5769</a>
GF160180V	180	200	246	192	275	31	A-terminal	1	<a href="#">152TA4411</a>
GF06180VQ	180	200	246	192	284	31.5	F-M10	1	<a href="#">168TA1013</a>
GF06240V	240	270	311	183	258	47	A-terminal	1	<a href="#">168TA1014</a>
<b>12 V</b>									
GF12050V	50	55	278	175	190	19	A-terminal	3	<a href="#">168TA1015</a>
GF12050VG	50	55	278	175	190	19	G-M6	3	<a href="#">168TA1016</a>
GF12076V	76	86	330	171	236	28.8	A-terminal	2	<a href="#">168TA1017</a>
GF12090V	90	98	513	189	219	36.5	A-terminal	4	<a href="#">168TA1018</a>
GF12105V	105	120	345	174	283	37.5	A-terminal	3	<a href="#">152TA5273</a>
GF12110V	110	120	513	223	219	45.5	A-terminal	4	<a href="#">168TA1019</a>
GF12160V	160	196	518	274	238	62.5	A-terminal	4	<a href="#">168TA1020</a>

