



GEL TECHNOLOGY



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More performance and longer service life
for demanding applications.

Shield's Gel batteries offer reliable cold cranking (starting power) and maximum power supply with a superior cycling performance.

The robust construction ensures the battery will continue to work through the most extreme conditions with a high resistance to vibration. The battery is exceptionally clean and safe to handle, with the battery acid fixed using Gel making the battery completely leak proof allowing the battery to be put on its side. The Gel battery incorporates gas recombination technology, ensuring that neither gas nor acid vapours are able to escape making it completely maintenance free.

The slow self-discharge rate of the battery plus its capability of recovery after deep discharge, makes it ideally suited for seasonal or infrequent use.

- **Sealed battery system with recombination**
Absolutely maintenance free
Clean & environmentally friendly
No release of acid vapours - Extremely low gassing
Safe application in closed compartments.
- **Lead/Calcium alloy on positive & negative plates**
Constant cold cranking performance over the entire service life.
Minimal self discharge - ideal for seasonal applications.
- **Thick plates with mechanically reinforced positive mass**
Extremely high cycling capability
Long service life with frequent charge and discharge.
- **Acid fixed in GEL – 100% leak proof**
Battery can also be positioned on its side
Deep discharge capabilities
No stratification - Suitable for solar applications.
- **Robust construction** - High vibration resistance.



APPLICATIONS

- Emergency & special vehicles (police, fire, ambulances, rescue)
- Refrigerated vehicles, construction machinery, solar applications, marine (sailing boats, motorised yachts, motor boats)
- Leisure vehicles (caravans, mobile homes)
- Floor Care (cleaning machines)

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GB GEL RANGE (12 Volt)

Part No.	Volts	Ah C5	Ah C20	Dimensions (mm)			Layout	Terminal	Weight (Kg)
				Length	Width	Total Height			
GB 12 040	12	33	40	210	175	175	0	T1	14.6
GB 12 060	12	51	56	278	175	190	0	T1	20.8
GB 12 080	12	65	80	353	175	190	0	T1	26.8
GB 12 085	12	66	85	349	175	235	1	T1	30.0
GB 12 120S	12	105	120	345	174	283	3	T1	38.7
GB 12 120	12	105	120	513	189	219	0	T1	40.0
GB 12 140	12	128	140	513	223	219	3	T1	45.5
GB 12 210	12	193	210	518	274	238	3	T1	62.5



GB GEL RANGE (6 Volt)

Part No.	Volts	Ah C5	Ah C20	Dimensions (mm)			Layout	Terminal	Weight (Kg)
				Length	Width	Total Height			
GB 06 195	6	160	195	246	192	275	0	T1	29.0
GB 06 200	6	160	196	264	183	270	0	TM	33.0
GB 06 300	6	255	300	295	178	365	0	T1	41.5

GBA GEL RANGE (AMERICAN TYPES)

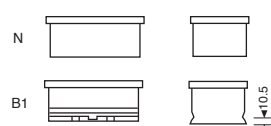
Part No.	Volts	Ah C5	Ah C20	Dimensions (mm)			Layout	Terminal	Weight (Kg)
				Length	Width	Total Height			
GBA 24 DT	12	63	74	277	173	251	1	TM	23.6
GBA 27 DT	12	72	86	326	173	251	1	TM	28.6
GBA 31 DT	12	86	98	329	171	237	1	TM	31.8
GBA 4D T1	12	153	183	527	214	254	4	T1	62.0
GBA 8D T1	12	188	225	534	279	251	4	T1	75.0



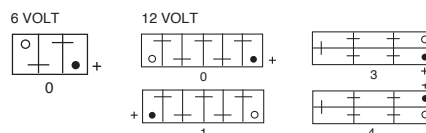
Battery Terminal Type



Battery Hold Down & Features



Terminal Layouts



BATTERY CARE TIP

Correct battery charging is as important as selecting the correct battery. Protecting and properly maintaining your batteries begins with selecting the right battery charger. There are many factors to consider when selecting a battery charger, for advice on selecting the correct charger please contact one of our battery centres.

CHARGING METHOD

Only chargers following IU or IU0U1 charging characteristics should be used together with the given reference data.

EXTERNAL CHARGING OF SHIELD GEL BATTERIES:

- I phase with current intensities of between 10 and 30A/100 Ah
- (Recommendation 1/10 of the battery capacity e.g 10A for 10.0Ah.
- U phase or U1 phase (main charging phase) with constant voltage between 14.1 and 14.4 V.
- U2 phase (float charge) with constant voltage of 13.8 V.
- I Charging times phase IU or IU1 at least 12 hrs, change to U2 phase after 12-16hrs.

CHARGING WITH ON-BOARD GENERATOR:

- With 12 V system 14.1 to 14.4 V controller voltage.
- With 24 V system 28.2 to 28.8 V controller voltage.

WITH SOLAR PANELS:

- 14.2 V constant.



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Shield Batteries Ltd reserves the right to change or revise, without notice, any specification or other details given in this publication. E & O E.