

CGD Carbon Series

ASTERION lead-acid batteries of the **CGD** series are manufactured according to AGM technology (electrolyte absorbed in a fiberglass separator).

As part of the active mass, a carbon addition in the form of graphene is used what makes Delta **CGD** batteries resistant to deep discharges and high temperature stability under adverse operating conditions. This series also features an increased number of charge/discharge cycles and duration of operation in heavy-duty systems based on renewable energy sources. The batteries are designed to operate both in buffer and cyclic modes. Recommended for use in autonomous power systems, as well as in conjunction with systems based on alternative energy sources.

Performance & characteristics:

- Long service life;
- · Deep discharge stability;
- · Temperature stability of the battery;
- Excellent performance at low and high ambient temperatures;
- Unsurpassed number of charge/ discharge cycles;
- Charge with high currents with minimal loss of capacity;
- A universal solution for any battery life.





Inert Gas Casting



Multicomponent inhibitors



Automated weding



Termodynamic pressing



Electrolytic agents



Carbon (graphene), in active mass composition



Bulk application of active mass



Advanced assembly technology

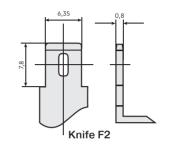


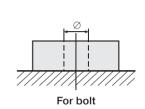


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Service life	In buffer mode	15 years		
	In avalia mada	1800 cycles at 30% discharge depth		
	In cyclic mode	2600 cycles at 30% discharge depth		
Self- discharge		Less than 3% per month		
Charging method	DC voltage charging	25°C		
	Cyclic mode	2,25-2,3 V/cell Temperature compensation - 30 mV/cell°C		

Terminal diagrams





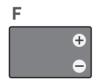
Battery construction

Component	Positive plate	Negative plate	Container	Cover	Valve	Terminals	Separator	Electrolyte
Material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

Housing types







Standard sizes

Туре	Voltage, V	Capacitance, Ah*	Length (±1), mm	Width (±1), mm	Height max (±1), mm	Weight, kg	Body	Terminal type
CGD1212	12	12	151	98	95	3,9	D	Knife F2
CGD1233	12	33	197	130	163	10,3	В	For M6 bolt
CGD1255	12	55	230	138	205	18	В	For M6 bolt
CGD12100	12	100	330	173	212	30	В	For M8 bolt
CGD12200	12	200	522	238	223	62,5	F	For M8 bolt

^{*}Capacitance is indicated at the 20-hour discharge.

^{**}Capacitance is indicated at the 10-hour discharge.