ASTERION CGD 1208

12 V | 8 AH

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

APPLICATION

- Medical equipment
- UPS systems
- Other energy storage systems
- Solar and wind power systems

AirFree — Exclusion of oxide components from the technological process of casting electrode grids.

TDI — Grid pressing under non-linear mechanical and high-temperature action to strengthen its structure.

XYZ — Increases the strength of the bond between the spread paste and the grate. Prevents the formation of corrosion in non-contact zone

AntiSulf — The inclusion of inhibitors in the composition of the active paste.

DofC — Special packaging of finished cells, which ensures their excellent safety during technological transportation in production processes.

ICSPro — Makes it possible to eliminate the human factor in the battery assembly technology.

AddOnE — Addition of electrolytic agents to the electrolyte.

CGraphene — The inclusion of a graphene inhibitor, which has a high electrical conductivity, into the composition of the spreading paste. Allows to provide uniform current distribution due to the formation of graphene conductive tracks on the electrode grid.

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ADVANTAGES

- Long service life
- Deep discharge stability
- The presence of carbon in the form of graphene in the composition of the paste
- 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
- Universal solution for any backup time

CHARGE PARAMETERS

Max. charge current 4A

Cycle mode (2,35÷2,4 V/cell)
Temperature correction factor ..... 30mV/°C

Standby mode (2,25÷2,3 V/cell)
Temperature correction factor ..... 20mV/°C

DISCHARGE CONSTANT CURRENT, A (25°C)

V/cell	15 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
1.60	17.4	10.2	7.89	5.57	3.15	2.34	1.58	1.14	0.84
1.65	16.5	9.5	7.51	5.48	3.12	2.29	1.57	1.13	0.83
1.70	16.0	9.4	7.40	5.45	3.08	2.27	1.56	1.12	0.83
1.75	15.7	8.93	7.16	5.38	3.03	2.23	1.55	1.11	0.82
1.80	15.3	8.45	6.87	5.29	3.02	2.18	1.53	1.10	0.81

DISCHARGE CONSTANT POWER, W/CELL (25°C)

V/cell	15 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
1.60	35.5	20.8	16.0	11.3	6.33	2.94	3.91	2.58	1.70
1.65	35.2	20.4	15.8	11.3	6.28	2.86	3.78	2.53	1.70
1.70	33.7	20.0	15.5	11.0	6.27	2.83	3.73	2.50	1.68
1.75	33.2	19.7	15.3	10.9	6.17	2.76	3.62	2.46	1.68
1.80	31.7	18.7	14.7	10.7	6.08	2.68	3.53	2.39	1.63

Note: the above data on the characteristics are the average values obtained as a result of 3 control and training cycles, and are not nominal by default.

OPERATING TEMPERATURE RANGE

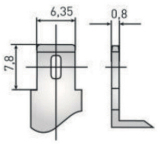
Discharge ..... -20...60°C
Charge ..... -10...60°C
Storage ..... -20...60°C

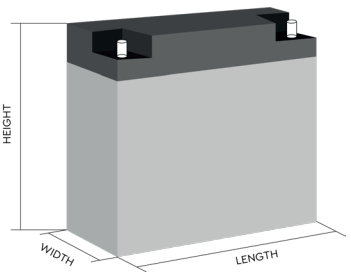
DIMENSIONS (± 2 MM)

Length, mm 151
Width, mm 65
Height over terminals, mm 100
Weight (±3%), kg 2.8

Body **D**

Terminal type
F2





SPECIFICATIONS

Nominal voltage 12V
Cell 6
Design life 15years
Service life in cyclic mode
100% DOD ..... 700 cycles
50% DOD ..... 1200 cycles
30% DOD ..... 1900 cycles
Nominal capacity (25°C)
10 hours rate (0.81 A; 1.8 V/cell) ..... 8.10 Ah
5 hours rate (1.55 A; 1.75 V/cell) ..... 7.75 Ah
1 hours rate (5.48 A; 1.65 V/cell) ..... 5.48 Ah

BATTERY CONSTRUCTION

Element	Positive. plate	Otrits. Plate (Negative plate)	Body (Case)	Cover (Lid)	Valve	Terminals	Separator	Electrolyte
Material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Acid

The products are constantly being improved, so the manufacturer reserves the right to make changes without prior notice. Please read the operating instructions carefully before using.

Asterion is a brand of reliable leadacid VRLA batteries (Valve Regulated Lead Acid), presented on the market since 2001. Asterion is widely used in telecommunications, security systems, access control, power supply systems for mobile operators' base stations, solar and wind power systems, uninterruptible power supply systems and uninterruptible power supplies and even motor vehicles.

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