

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

### INERT GAS CASTING

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



TDI

### THERMODYNAMIC COMPRESSION

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



XYZ

Bulk application of active mass increases the strength of the bond between the spread paste and the grate. Prevents the formation of corrosion in non-contact zone



AntiSulf

Multicomponent inhibitors All The inclusion of inhibitors in the composition of the active paste.



DoIC

Advanced assembly technology Special packaging of finished cells, which ensures their excellent safety during technological transportation in production processes.



ICSPro

Automated welding Makes it possible to eliminate the human factor in the battery assembly technology.



AddOnE

### Electrolytic agents II

Addition of electrolytic agents to the electrolyte.



CGraphene

### Carbon

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.



## 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 ..... 45A

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	1 h	2 h	3 h	5 h	8 h	10 h	20 h
1.60	290	176	102	58.5	42.5	28.5	18.8	15.8	8.27
1.65	281	173	101	58.2	42.0	28.2	18.6	15.6	8.22
1.70	275	170	101	57.8	41.4	27.9	18.5	15.6	8.18
1.75	266	162	99	56.9	41.0	27.6	18.3	15.3	8.15
1.80	248	162	96.6	55.8	40.7	26.9	18.2	15.0	8.10

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

V/cell	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h	20 h
1.60	510	320	194	111	80.7	54.0	36.3	30.3	16.4
1.65	501	317	192	110	79.8	53.7	36.0	30.0	16.4
1.70	495	317	191	110	79.4	53.3	35.9	29.7	16.2
1.75	492	315	189	109	78.9	53.0	35.6	29.4	16.2
1.80	465	308	188	109	78.6	52.4	35.3	29.1	16.1

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 ..... 484

Width, mm ..... 170

Height, mm ..... 241

Height over terminals, mm ..... 243

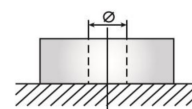
Weight (±3%), kg ..... 48

Вес электролита (±3%), кг ..... 0

Body F



Terminal type  
Insert Ø8 mm



## SPECIFICATIONS

Nominal voltage ..... 12V

Cell ..... 6

Service life in cyclic mode

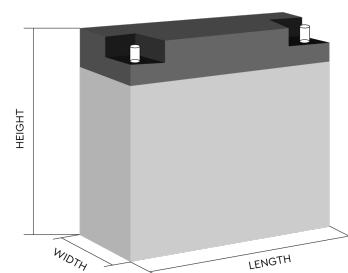
100% DOD ..... 1000 cycles

50% DOD ..... 2300 cycles

30% DOD ..... 3800 cycles

Self-discharge ..... 3%/mon. at 20°C

Maximum discharge current (25°C) ..... 1800 A (5sec)



## 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.

Артикул: 4614080010010

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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