ASTERION BATTERY GEL 12-15

12V 15Ah

ASTERION GEL are sealed maintenance-free lead-acid batteries with gas recombination system (VRLA). Batteries are manufactured using AGM + GEL technology and are equipped with a built-in LCD display showing the battery status: voltage, charge level and operating time. The information panel is activated by pressing the button. In the case of low voltage, an alarm is triggered. The batteries are designed for standby and cycle uses. Recommended for use in autonomous power systems, and also in conjunction with systems based on renewable.

Battery construction

Element	Positive plate	Negative plate	Case	Lid	Valve	Terminal	Separator	Electrolyte
Material	Lead dioxide	Lead	ABS		Rubber	Copper	Fiberglass	Acid

Specifications

Nominal voltage.....12 V
Cell.....6
Design life.....10-12 years
Nominal capacity (25°C)
20 hours rate (0,75 A; 1,75 V/cell).....15 Ah
10 hours rate (1,32 A; 1,75 V/cell).....13,2 Ah
5 hours rate (2,45 A; 1,75 V/cell).....12,25 Ah
Self-discharge.....3% capacity per month 20°C

Internal resistance (25°C).....11 mΩ

Operating temperature range

Discharge.....-20÷60°C
Charge.....-10÷60°C
Storage.....-20÷60°C
Maximum dischsrge current (25°C).....200A (5sec)
Cycle mode (2,35÷2,4 V/cell)
Max.charge current.....3 A
Temperature correction factor.....30 mV/°C
Standby mode (2,25÷2,3 V/cell)
Temperature correction factor.....20 mV/°C

Performance & characteristics

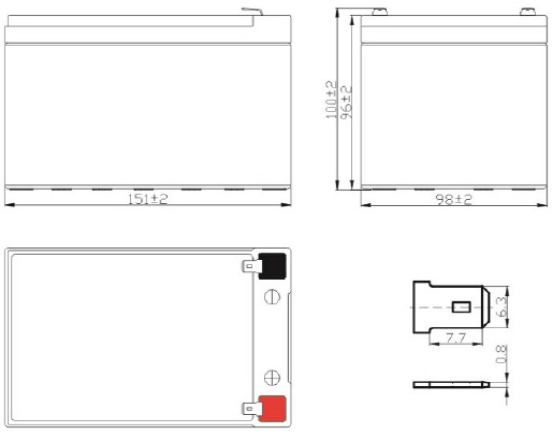
- Combined AGM + GEL technology
  LCD display shows the battery status;
- Long service life;
- Deep discharge stability;
- Temperature stability characteristics;
- Excluded acid leaks, guaranteed safe operation with other equipment;
- There is no gas evolution, enough natural ventilation;
- Maintenance-free. Do not require distillate topping;
- The battery case is made of flame retardant ABS plastic.

Dimensions (±2mm)

Length, mm.....151
Width, mm.....98
Height, mm.....96
Height over terminals, mm.....100
Weight (±3%), kg.....3,7

Application

- Uninterruptable power supply
- Communication system
- Renewable energy systems
- Autonomous power supply systems
- Medical equipment, wheelchairs



Layout

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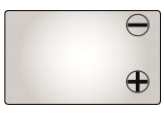
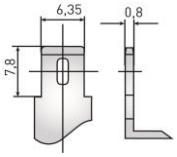


Terminal type

F2



Discharge Constant Current, A (25°C)

V/cell	15 min	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1,60	25,7	14,3	11,1	9,31	3,62	2,50	1,64	1,34	0,77
1,65	25,0	14,0	10,9	9,20	3,58	2,48	1,63	1,34	0,76
1,70	24,4	13,8	10,6	8,94	3,57	2,47	1,62	1,33	0,75
1,75	24,0	13,4	10,4	8,56	3,53	2,45	1,61	1,32	0,75
1,80	23,4	13,1	10,1	8,19	3,50	2,42	1,58	1,30	0,74

Discharge Constant Power, W/cell (25°C)

V/cell	15 min	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1,60	52,7	31,0	22,9	18,0	7,50	4,95	3,27	2,68	1,40
1,65	51,1	30,1	22,3	17,8	7,42	4,94	3,25	2,65	1,39
1,70	48,0	28,7	21,7	17,2	7,20	4,70	3,14	2,58	1,37
1,75	46,3	27,4	20,1	16,3	7,16	4,65	3,07	2,52	1,33
1,80	44,4	25,8	19,3	15,6	6,70	4,42	2,93	2,40	1,30