

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)	
10 hours rate (10 A; 1,8 V/cell).....	100 Ah
5 hours rate (17,2 A; 1,75 V/cell).....	86 Ah
1 hours rate (61,4 A; 1,65 V/cell).....	61,4 Ah
Self-discharge.....	3% capacity per month 20°C
Internal resistance (25°C).....	4 mΩ

### Operating temperature range

Discharge.....	-20+60°C
Charge.....	-10+60°C
Storage.....	-20+60°C
Maximum discharge current (25°C).....	900A (5sec)
Cycle mode (2,35±2,4 V/cell)	
Max.charge current.....	20 A
Temperature correction factor.....	30 mV/°C
Standby mode (2,25±2,3 V/cell)	
Temperature correction factor.....	20 mV/°C

### Application

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

### 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.....	333
Width, mm.....	173
Height, mm.....	216
Height over terminals, mm.....	222
Weight (±3%), kg.....	32,5

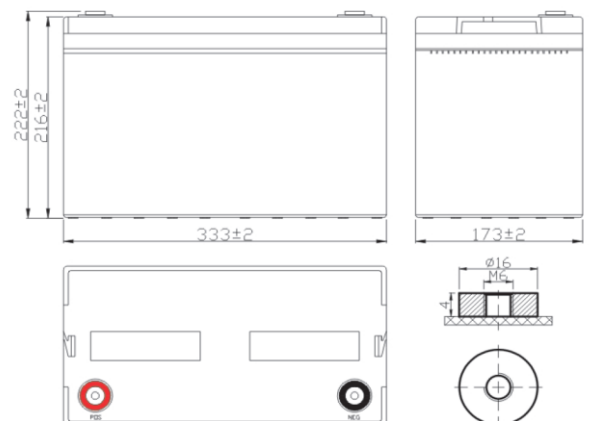
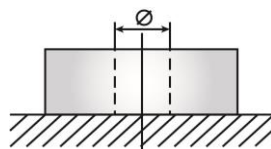
### Layout

B



### Terminal type

Insert Ø6 mm

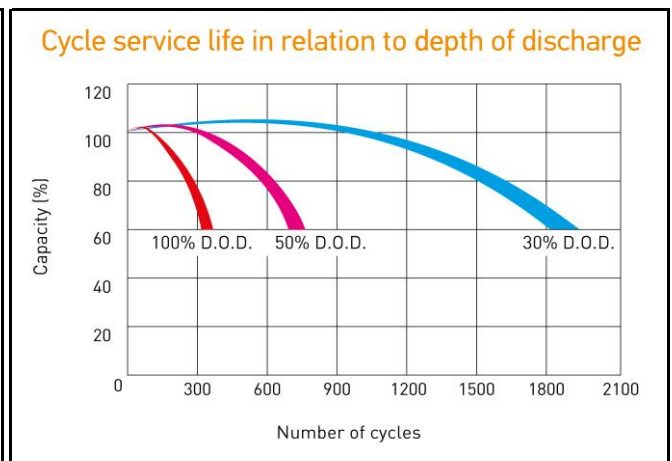
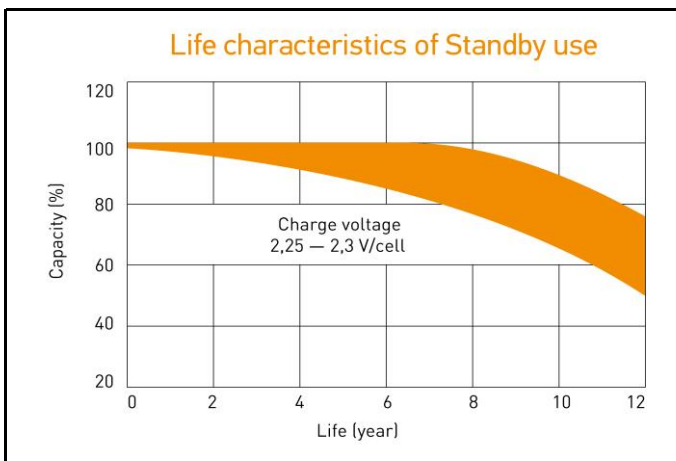
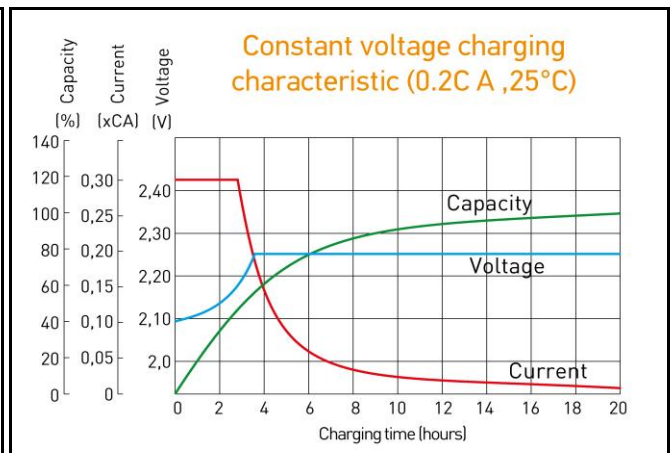
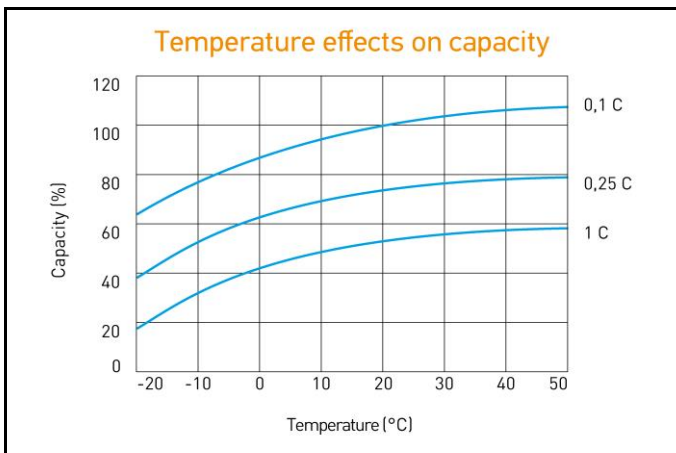


**Discharge Constant Current, A ( 25°C)**

V/cell	15 min	30 min	45 min	1 h	3 h	4 h	5 h	8 h	10 h
1,60	182	106	79,2	65,1	27,5	22,3	18,7	12,5	10,3
1,65	175	102	77,4	61,4	27,2	21,5	18,0	12,3	10,2
1,70	161	94,1	71,9	60,5	26,7	21,1	17,6	12,2	10,2
1,75	151	91,1	69,9	59,5	26,4	20,7	17,2	12,0	10,1
1,80	141	89,2	68,6	56,4	24,9	19,9	16,9	11,9	10,0

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

V/cell	15 min	30 min	45 min	1 h	3 h	4 h	5 h	8 h	10 h
1,60	315	196	147	122	51,7	41,7	35,1	24,2	19,8
1,65	309	185	143	116	50,4	40,7	34,7	24,0	19,7
1,70	293	180	135	112	49,9	40,5	34,3	23,8	19,5
1,75	290	174	132	109	48,2	39,5	33,9	23,1	19,0
1,80	275	168	129	102	47,6	39,0	33,5	22,6	18,5



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