

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 (15 A; 1,8 V/cell).....150 Ah  
     5 hours rate (23,6 A; 1,75 V/cell).....118 Ah  
     1 hours rate (98,2 A; 1,65 V/cell).....98,2 Ah  
 Self-discharge.....3% capacity per month 20°C  
 Internal resistance (25°C).....3,4 mΩ

**Operating temperature range**

Discharge.....-20+60°C  
 Charge.....-10+60°C  
 Storage.....-20+60°C  
 Maximum discharge current (25°C).....1000A (5sec)  
 Cycle mode (2,35±2,4 V/cell)  
     Max.charge current.....30 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.

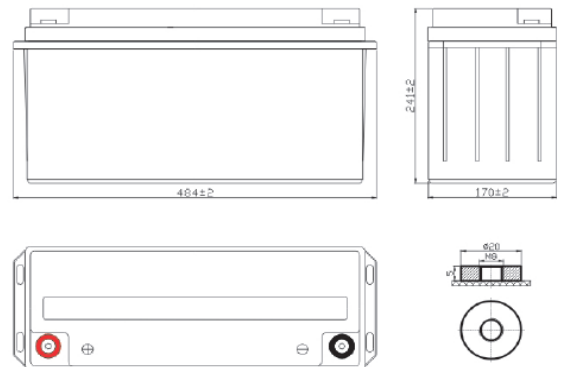
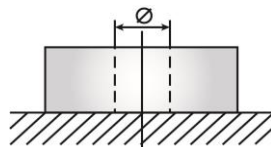
**Dimensions (±2mm)**

Length, mm.....484  
 Width, mm.....170  
 Height, mm.....241  
 Height over terminals, mm.....241  
 Weight (±3%), kg.....48,1

**Layout**  
B



**Terminal type**  
Insert Ø8 mm

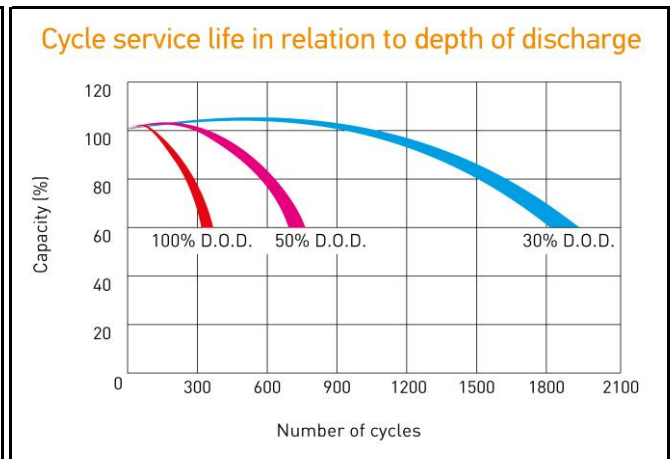
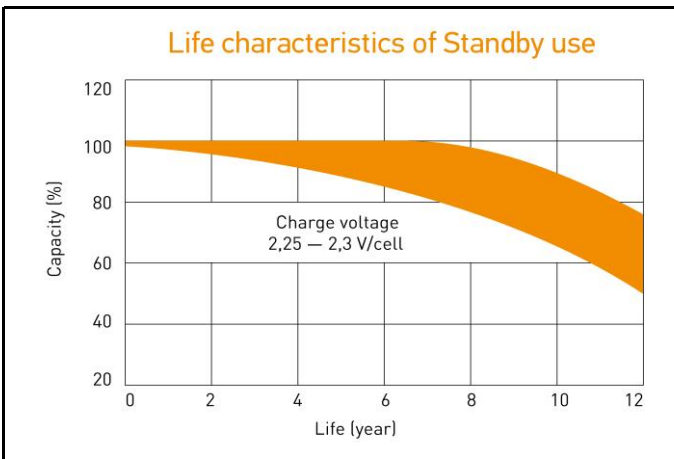
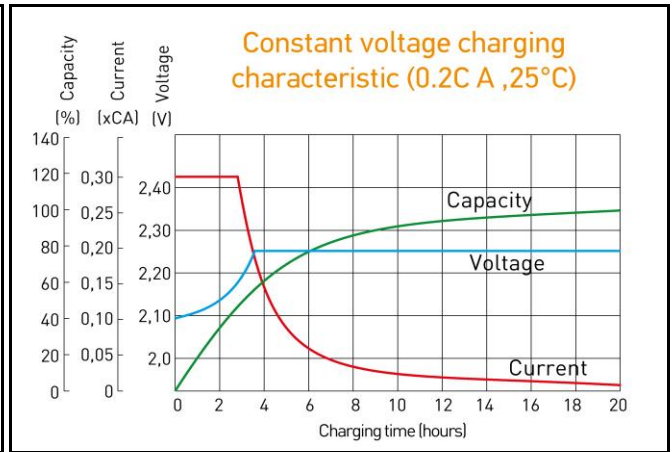
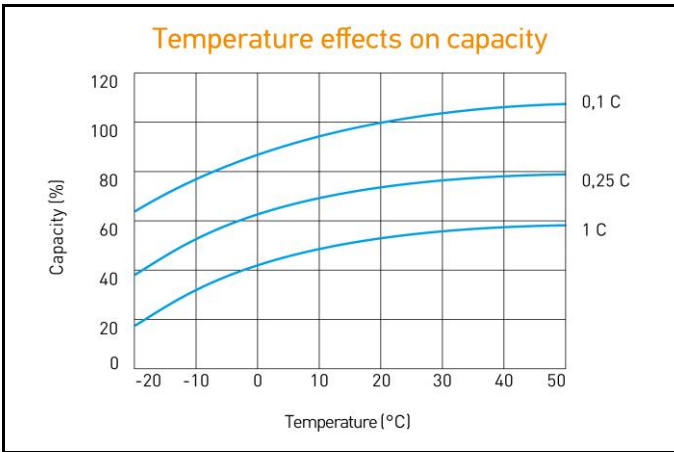


**Discharge Constant Current, A ( 25°C)**

V/cell	15 min	30 min	45 min	1 h	3 h	4 h	5 h	8 h	10 h
1,60	272	150	119	102	38,4	30,4	25,5	18,1	15,3
1,65	261	145	114	98,2	36,9	29,6	25,1	18,0	15,2
1,70	247	139	110	94,8	35,9	28,7	24,3	17,9	15,2
1,75	235	131	105	90,6	34,6	27,8	23,6	17,5	15,1
1,80	222	125	99,5	85,9	32,7	26,5	22,7	17,4	15,0

**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	465	287	219	179	73,1	58,4	49,0	35,8	30,0
1,65	450	281	217	174	72,3	57,7	48,9	35,7	29,9
1,70	435	272	213	173	70,3	57,0	48,4	35,5	29,7
1,75	421	264	208	171	69,1	56,0	47,7	35,2	29,6
1,80	402	254	201	169	66,4	54,4	46,9	34,9	29,5



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