

Sealed maintenance-free lead-acid batteries series DTS ASTERION brand are manufactured by AGM technology (electrolyte absorbed in glass fiber separators) and equipped with VRLA valves.

Due to a wide range of batteries and their high performance, are recommended for use in a variety of uninterruptible power supply systems, including exacting electrical appliances (submersible and circulation pumps, boilers of heating systems), emergency power supply and other electrical devices.



**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.....5 years  
 Nominal capacity (25°C)  
     20 hours rate (0,6 A; 1,75 V/cell).....12 Ah  
     10 hours rate (0,99 A; 1,75 V/cell).....9,9 Ah  
     5 hours rate (1,72 A; 1,70 V/cell).....8,6 Ah  
 Self-discharge.....3% capacity per month 20°C  
 Internal resistance (25°C).....16 mΩ

**Operating temperature range**

Discharge..... -10÷40°C  
 Charge..... -20÷60°C  
 Storage..... -20÷60°C  
 Maximum discharge current (25°C).....180A (5sec)  
 Cycle mode (2,4÷2,45 V/cell)  
     Max.charge current.....3,6 A  
     Temperature correction factor.....30 mV/°C  
 Standby mode (2,25÷2,3 V/cell)  
     Temperature correction factor.....20 mV/°C

**Application**

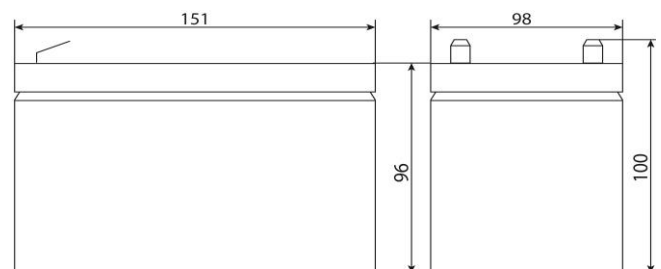
- Uninterruptable power supply
- Back up power supply
- Space-heating system
- Renewable energy systems

**Performance & characteristics**

- AGM technology allows to recombine 99% of the generated gas;
- No restrictions on air transportation;
- Compliance with the UL requirements;
- Lead plates, alloyed by calcium, provide high energy density;
- Maintenance-free. Do not require distillate topping;
- Long service life;
- The battery case is made of flame-retardant ABS

**Dimensions (±2mm)**

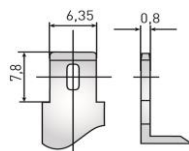
Length, mm.....151  
 Width, mm.....98  
 Height, mm.....96  
 Height over terminals, mm.....100  
 Weight (±3%), kg.....3,55



**Layout**  
F



**Terminal type**  
F2 type terminal

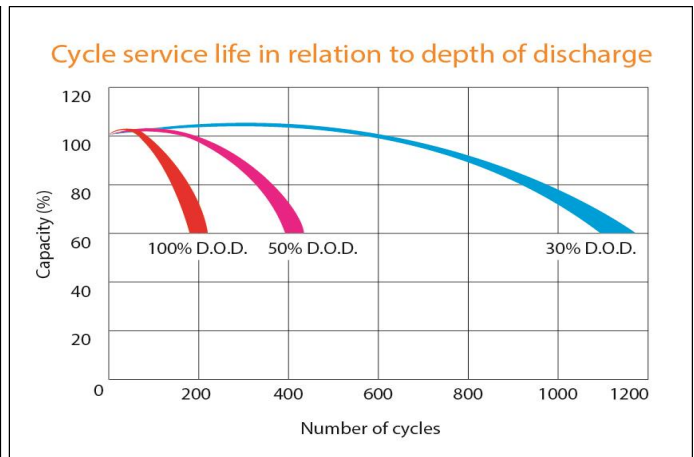
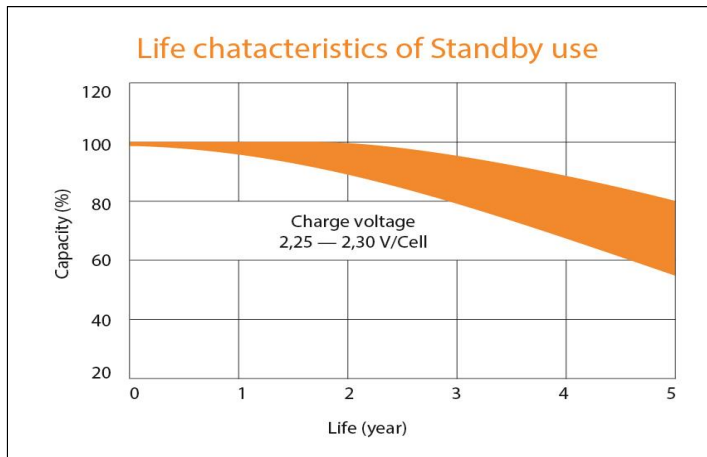
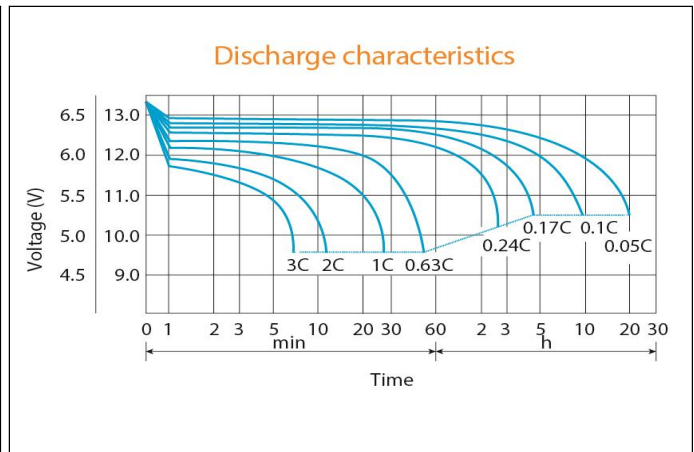
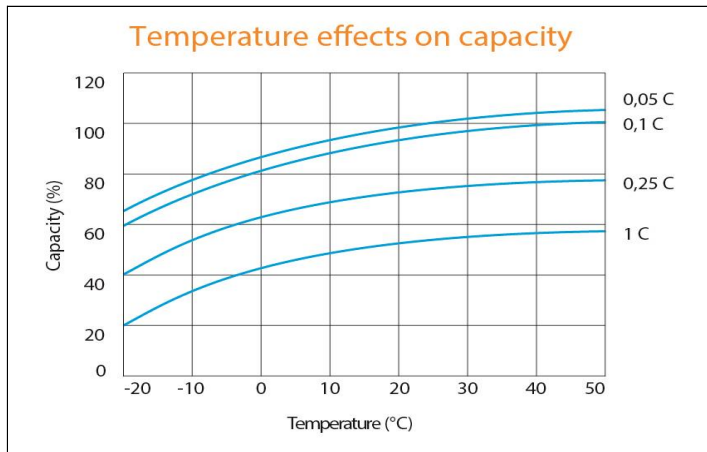


**Discharge Constant Current, A ( 25°C)**

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	48,8	32,0	25,1	14,1	8,36	2,97	1,94	1,15	0,63
1,65	47,0	31,2	24,3	13,9	7,99	2,83	1,83	1,09	0,62
1,70	44,3	29,7	23,6	13,7	7,58	2,70	1,72	1,04	0,61
1,75	39,8	27,7	22,3	13,3	7,20	2,58	1,66	0,99	0,60
1,80	35,7	25,9	21,0	12,9	7,02	2,53	1,61	0,93	0,57

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

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	85,6	56,7	44,7	26,9	15,5	5,73	3,73	2,18	1,19
1,65	83,3	55,5	44,1	26,6	15,1	5,58	3,61	2,13	1,18
1,70	79,3	53,3	43,5	26,4	14,7	5,39	3,55	2,07	1,15
1,75	72,3	51,1	41,3	25,8	14,2	5,15	3,47	1,97	1,15
1,80	65,3	47,8	39,0	25,2	13,8	5,04	3,36	1,85	1,13



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