

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 (0,45 A; 1,75 V/cell).....9 Ah  
     10 hours rate (0,8 A; 1,75 V/cell).....8 Ah  
     5 hours rate (1,41 A; 1,70 V/cell).....7,05 Ah  
 Self-discharge.....3% capacity per month 20°C  
 Internal resistance (25°C).....19 mΩ

**Operating temperature range**

Discharge..... -10÷40°C  
 Charge..... -20÷60°C  
 Storage..... -20÷60°C  
 Maximum discharge current (25°C).....100A (5sec)  
 Cycle mode (2,4÷2,45 V/cell)  
     Max.charge current.....2,7 A  
     Temperature correction factor.....30 mV/°C  
 Standby mode (2,25÷2,3 V/cell)  
     Temperature correction factor.....20 mV/°C

**Application**

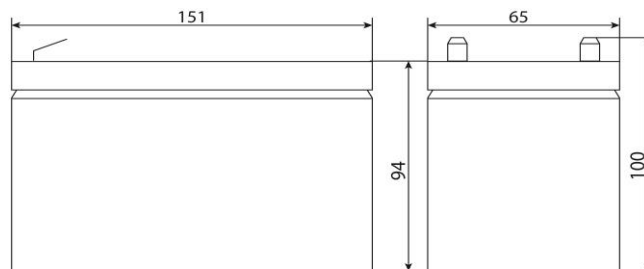
- Uninterruptable power supply
- Back up power supply
- Space-heating system
- Renewable energy systems

**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)**

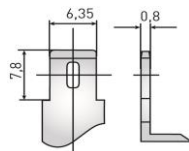
Length, mm.....151  
 Width, mm.....65  
 Height, mm.....94  
 Height over terminals, mm.....100  
 Weight (±3%), kg.....2,6



**Layout**  
D



**Terminal type**  
F2 type terminal

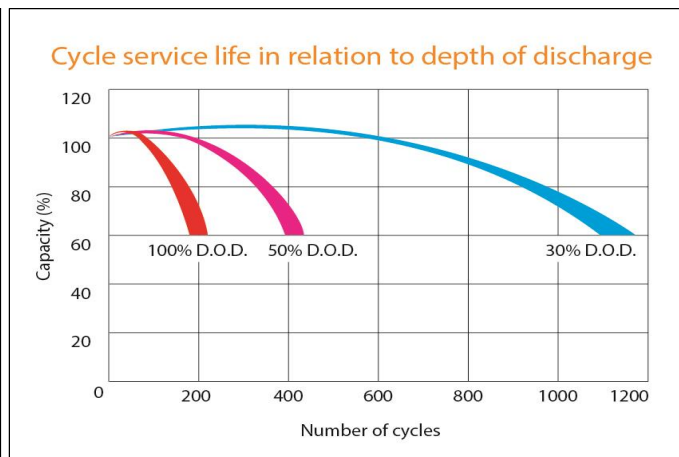
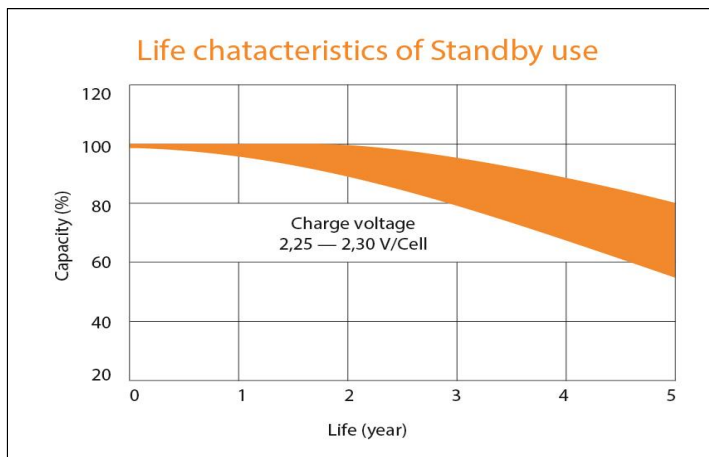
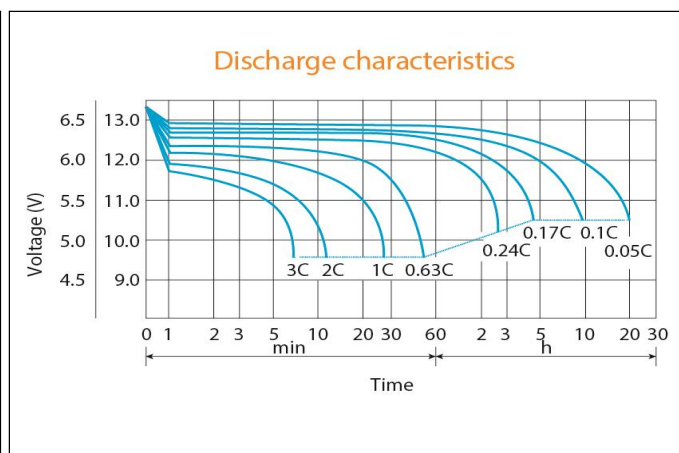
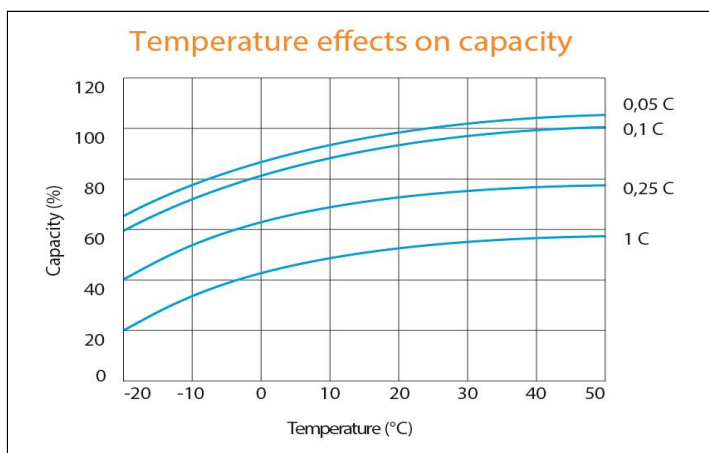


**Discharge Constant Current, A ( 25°C)**

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	36,3	23,8	16,7	9,80	5,69	2,15	1,47	0,81	0,46
1,65	35,1	23,0	16,2	9,52	5,61	2,12	1,43	0,80	0,46
1,70	33,0	22,0	15,4	9,23	5,49	2,08	1,40	0,80	0,46
1,75	29,6	20,6	14,8	8,84	5,36	2,03	1,37	0,79	0,45
1,80	26,5	19,3	14,2	8,60	5,24	2,00	1,36	0,76	0,42

**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	63,6	42,1	31,2	18,6	11,0	4,19	2,81	1,58	0,88
1,65	62,0	41,3	30,2	18,0	10,7	4,13	2,76	1,57	0,88
1,70	59,0	39,6	29,6	17,4	10,5	4,05	2,74	1,53	0,87
1,75	53,8	38,1	28,8	17,1	10,2	3,96	2,70	1,51	0,87
1,80	48,6	35,6	27,7	16,7	9,98	3,88	2,65	1,48	0,84



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