

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.....10 years  
 Nominal capacity (25°C)  
     20 hours rate (10 A; 1,75 V/cell).....200 Ah  
     10 hours rate (19,2 A; 1,75 V/cell).....192 Ah  
     5 hours rate (34,4 A; 1,70 V/cell).....172 Ah  
 Self-discharge.....3% capacity per month 20°C  
 Internal resistance (25°C).....3,8 mΩ

**Operating temperature range**

Discharge..... -10÷40°C  
 Charge..... -20÷60°C  
 Storage..... -20÷60°C  
 Maximum discharge current (25°C).....1000A (5sec)  
 Cycle mode (2,4÷2,45 V/cell)  
     Max.charge current.....60 A  
     Temperature correction factor.....30 mV/°C  
 Standby mode (2,25÷2,3 V/cell)  
     Temperature correction factor.....20 mV/°C

**Application**

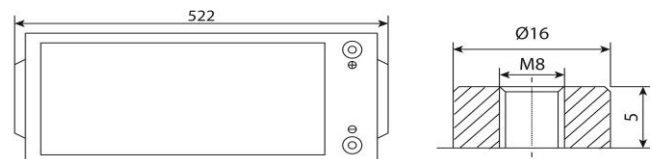
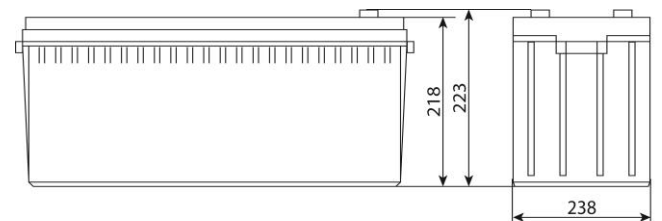
- Uninterruptable power supply
- Back up power supply
- Space-heating system
- Renewable energy systems

**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)**

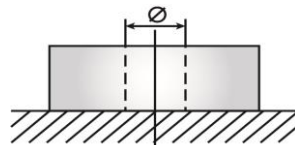
Length, mm.....522  
 Width, mm.....239  
 Height, mm.....217  
 Height over terminals, mm.....222  
 Weight (±3%), kg.....58



**Layout**  
F



**Terminal type**  
Insert Ø8 mm

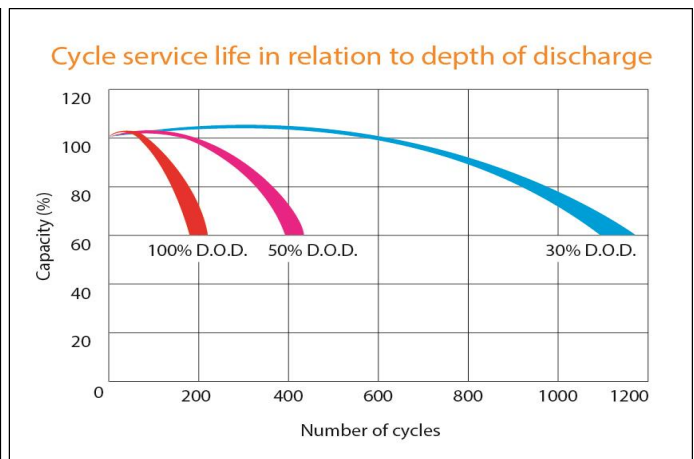
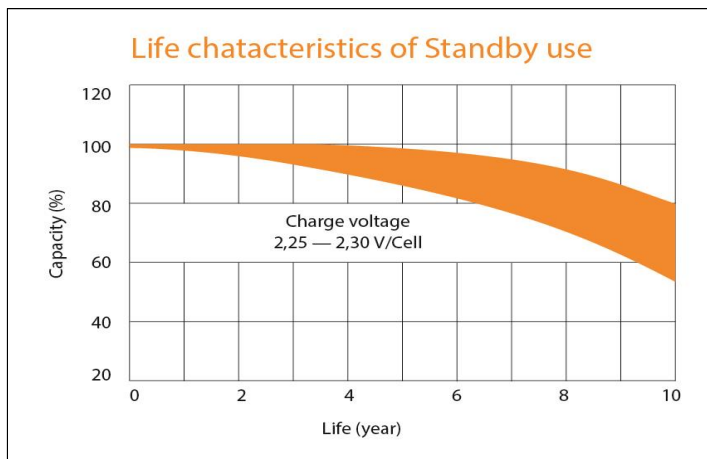
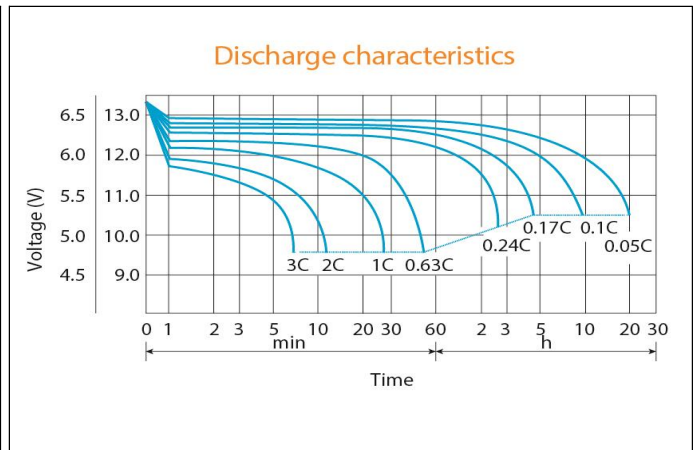
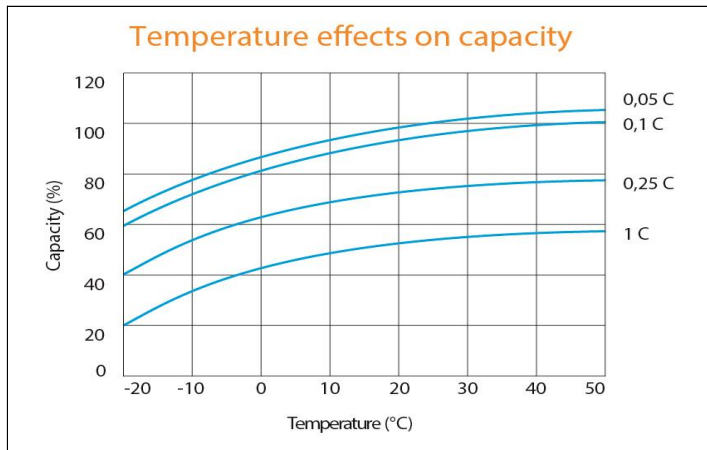


**Discharge Constant Current, A ( 25°C)**

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	520	388	320	203	117	52,0	34,8	19,8	10,6
1,65	505	369	314	196	116	51,8	34,6	19,6	10,4
1,70	495	356	309	190	115	51,4	34,4	19,4	10,2
1,75	454	329	294	184	114	51,2	33,9	19,2	10,0
1,80	419	300	276	177	110	49,8	33,3	19,0	9,81

**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	896	689	587	375	225	103	69,1	35,6	17,8
1,65	878	688	577	368	224	102	69,0	35,1	17,5
1,70	842	650	571	357	219	101	68,7	34,6	17,3
1,75	816	605	545	348	213	99,9	67,9	33,9	17,1
1,80	760	558	490	335	208	97,5	66,7	33,5	16,9



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