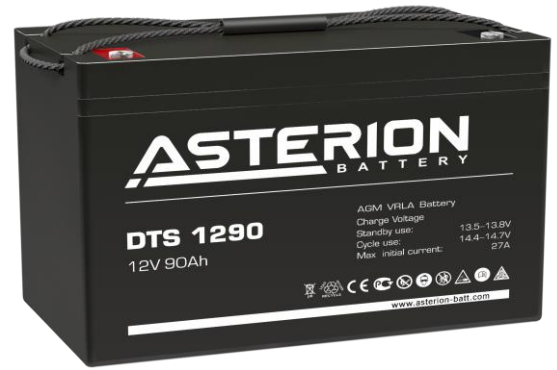


Sealed maintenance-free lead-acid batteries series DTS ASTERION brand are manufactured by AGM technology (electrolyte absorbed in glass fiber separators) and equipped with VRLA valves.

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 (4,5 A; 1,75 V/cell).....90 Ah  
     10 hours rate (8,69 A; 1,75 V/cell).....86,9 Ah  
     5 hours rate (15,5 A; 1,70 V/cell).....77,5 Ah  
 Self-discharge.....3% capacity per month 20°C  
 Internal resistance (25°C).....5,1 mΩ

**Operating temperature range**

Discharge..... -10÷40°C  
 Charge..... -20÷60°C  
 Storage..... -20÷60°C  
 Maximum discharge current (25°C).....900A (5sec)  
 Cycle mode (2,4÷2,45 V/cell)  
     Max.charge current.....27 A  
     Temperature correction factor.....30 mV/°C  
 Standby mode (2,25÷2,3 V/cell)  
     Temperature correction factor.....20 mV/°C

**Application**

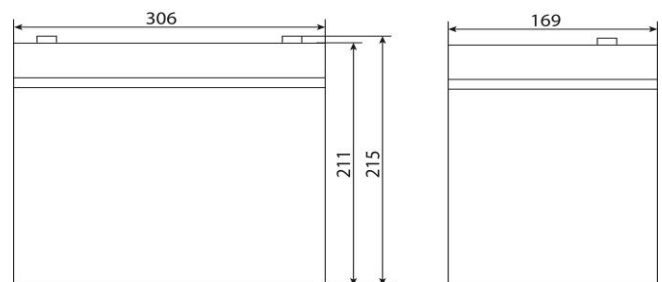
- Uninterruptable power supply
- Back up power supply
- Space-heating system
- Renewable energy systems

**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)**

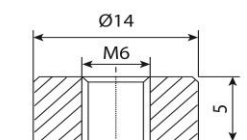
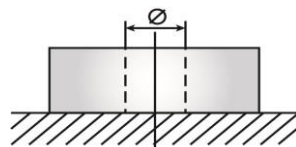
Length, mm.....306  
 Width, mm.....169  
 Height, mm.....211  
 Height over terminals, mm.....215  
 Weight (±3%), kg.....26



**Layout B**



**Terminal type Insert Ø6 mm**

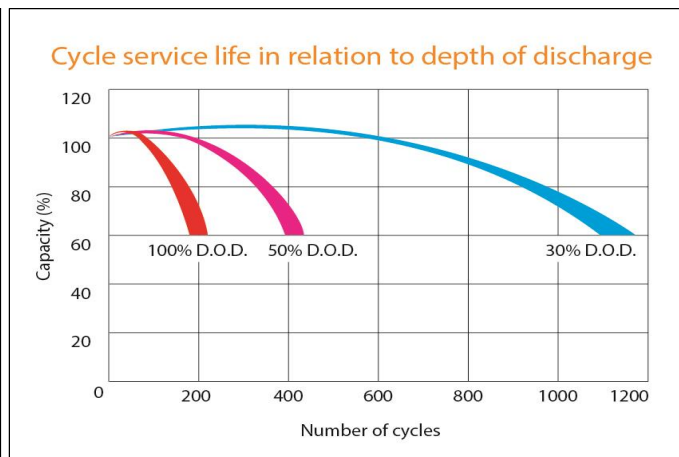
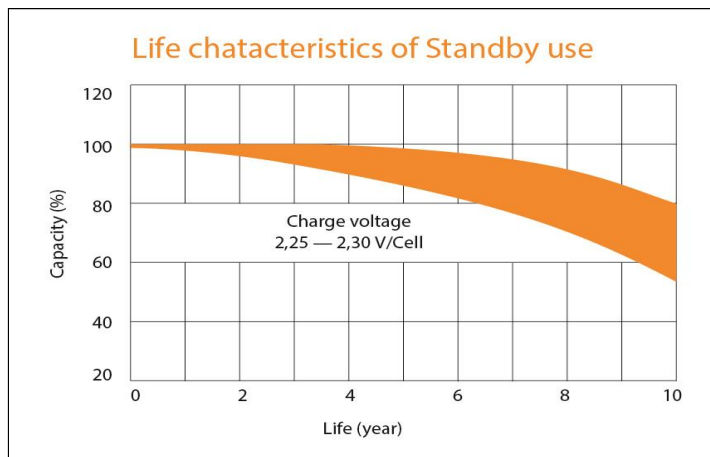
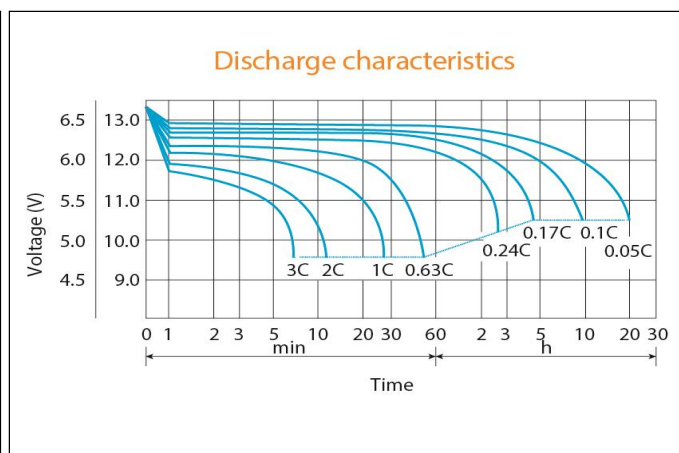
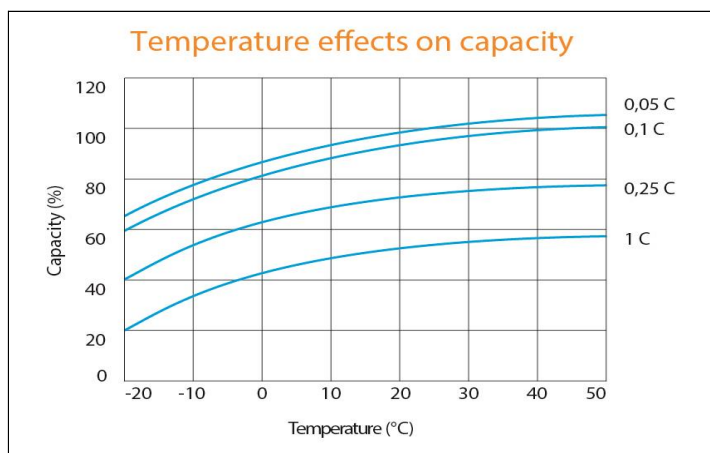


**Discharge Constant Current, A ( 25°C)**

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	279	200	156	89,7	51,9	23,3	15,6	8,74	4,75
1,65	259	188	148	86,9	51,1	22,5	15,4	8,67	4,66
1,70	235	174	137	84,0	49,7	22,2	15,2	8,58	4,58
1,75	216	163	130	80,8	48,6	21,7	14,7	8,47	4,50
1,80	198	147	118	77,6	47,0	20,9	14,4	8,38	4,40

**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	496	369	262	168	100,0	45,9	31,1	17,6	9,16
1,65	486	357	250	163	99,0	45,2	30,8	17,5	9,12
1,70	464	346	245	159	97,4	44,5	30,4	17,3	9,10
1,75	438	324	236	154	95,2	43,4	30,0	17,1	8,99
1,80	398	298	233	149	93,1	42,5	29,4	16,9	8,80



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