

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 (2 A; 1,75 V/cell).....40 Ah
 10 hours rate (3,89 A; 1,75 V/cell).....38,9 Ah
 5 hours rate (6,93 A; 1,70 V/cell).....34,65 Ah
 Self-discharge.....3% capacity per month 20°C
 Internal resistance (25°C).....10 mΩ

Operating temperature range

Discharge..... -10÷40°C
 Charge..... -20÷60°C
 Storage..... -20÷60°C
 Maximum discharge current (25°C).....400A (5sec)
 Cycle mode (2,4÷2,45 V/cell)
 Max.charge current.....12 A
 Temperature correction factor.....30 mV/°C
 Standby mode (2,25÷2,3 V/cell)
 Temperature correction factor.....20 mV/°C

Application

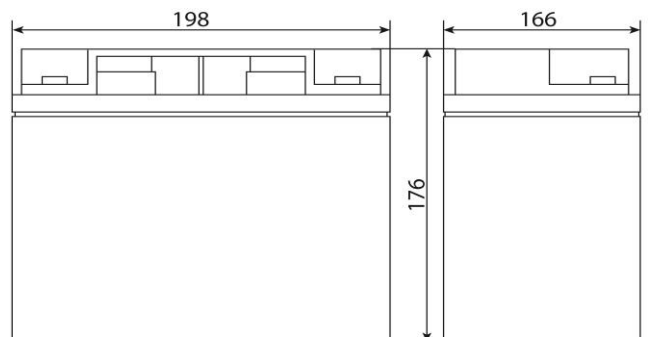
- Uninterruptable power supply
- Back up power supply
- Space-heating system
- Renewable energy systems

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)

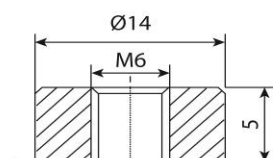
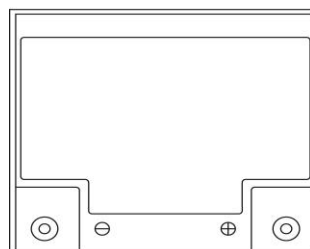
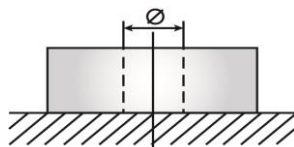
Length, mm.....198
 Width, mm.....166
 Height, mm.....176
 Height over terminals, mm.....176
 Weight (±3%), kg.....12,6



Layout E



Terminal type
Insert Ø6 mm

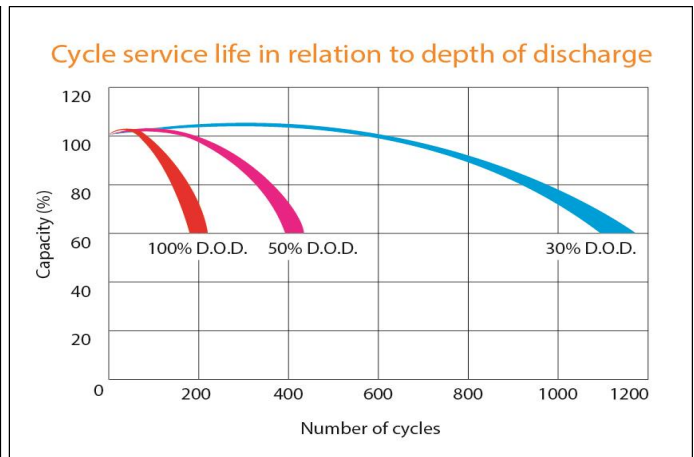
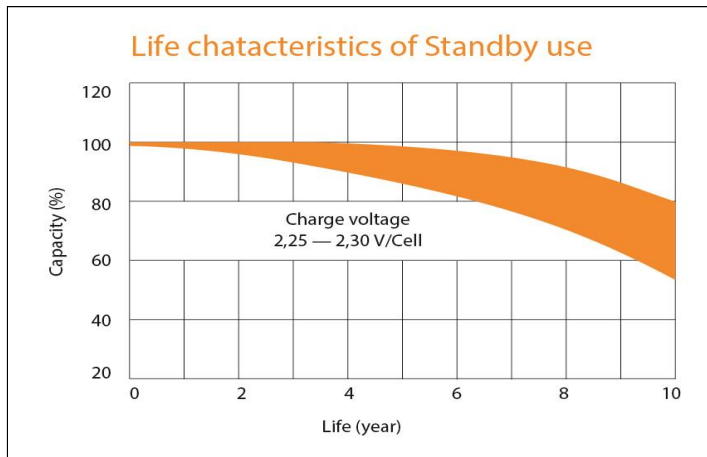
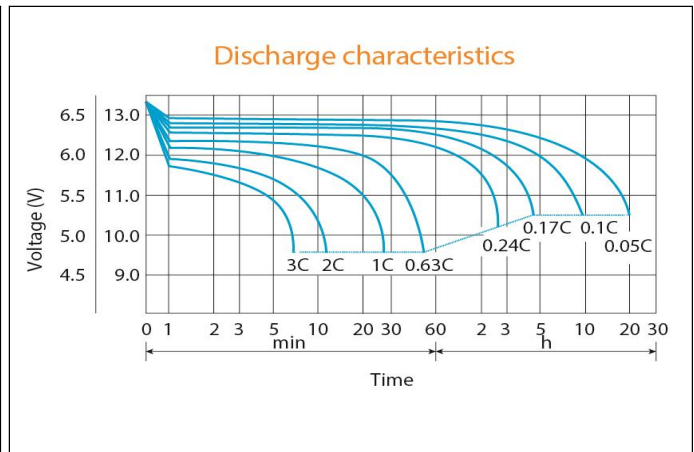
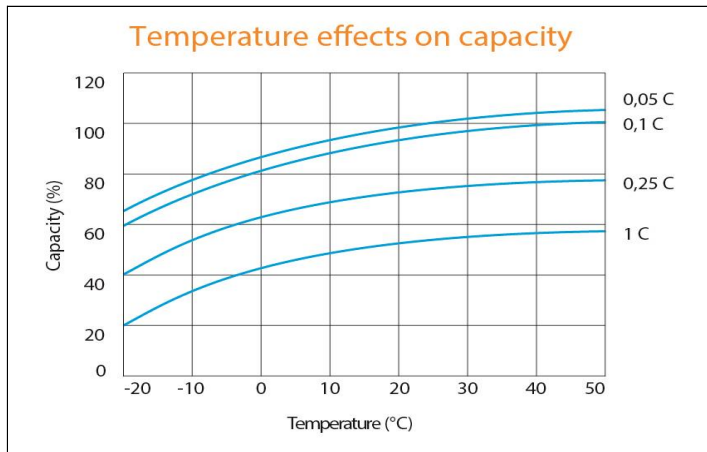


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	123	85,7	69,9	39,2	24,1	9,98	7,15	3,99	2,11
1,65	115	81,7	66,1	38,0	23,9	9,93	7,07	3,95	2,05
1,70	104	77,0	63,9	36,5	23,5	9,79	6,92	3,91	2,04
1,75	96,8	73,0	60,3	35,8	22,7	9,57	6,78	3,88	2,00
1,80	91,9	69,2	54,6	35,2	22,7	9,35	6,59	3,84	1,96

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	223	153	118	77,6	47,9	19,7	13,8	7,89	4,15
1,65	205	146	115	75,4	47,3	19,6	13,5	7,84	4,10
1,70	190	140	109	72,4	46,5	19,4	13,1	7,75	4,04
1,75	177	131	103	70,9	45,1	18,9	12,7	7,71	3,99
1,80	162	125	100	69,7	44,8	18,6	12,2	7,61	3,90



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