

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 (7 A; 1,75 V/cell).....140 Ah
 10 hours rate (13,5 A; 1,75 V/cell).....135 Ah
 5 hours rate (23,9 A; 1,70 V/cell).....119,5 Ah
 Self-discharge.....3% capacity per month 20°C
 Internal resistance (25°C).....4,3 mΩ

Operating temperature range

Discharge..... -10÷40°C
 Charge..... -20÷60°C
 Storage..... -20÷60°C
 Maximum discharge current (25°C).....960A (5sec)
 Cycle mode (2,4÷2,45 V/cell)
 Max.charge current.....42 A
 Temperature correction factor.....30 mV/°C
 Standby mode (2,25÷2,3 V/cell)
 Temperature correction factor.....20 mV/°C

Application

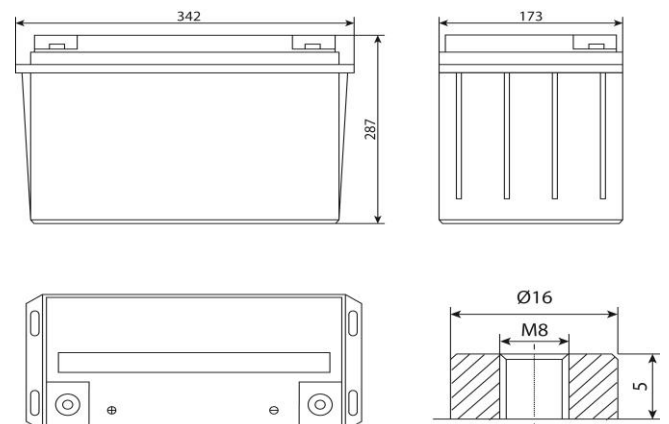
- Uninterruptable power supply
- Back up power supply
- Space-heating system
- Renewable energy systems

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)

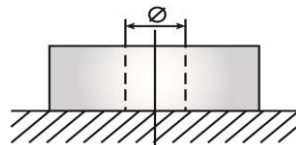
Length, mm.....340
 Width, mm.....173
 Height, mm.....280
 Height over terminals, mm.....285
 Weight (±3%), kg.....40



Layout B



Terminal type
Insert Ø8 mm

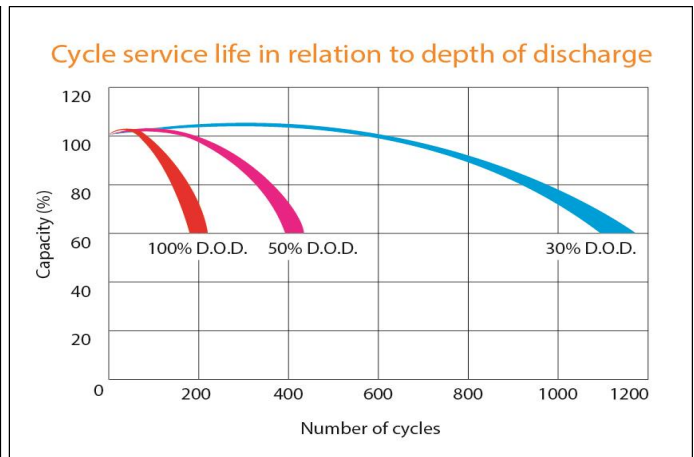
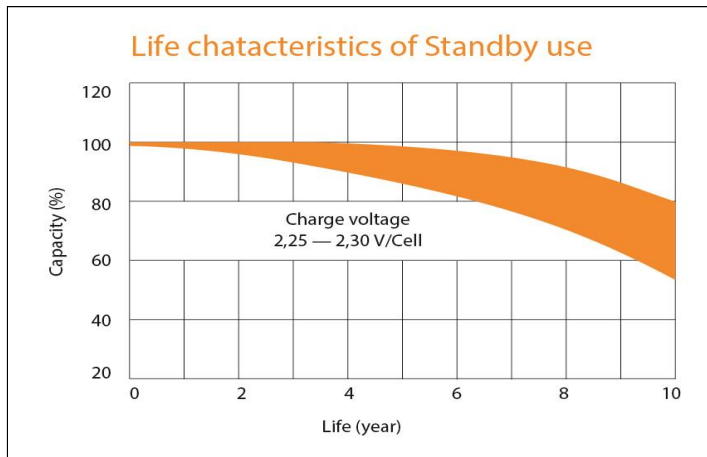
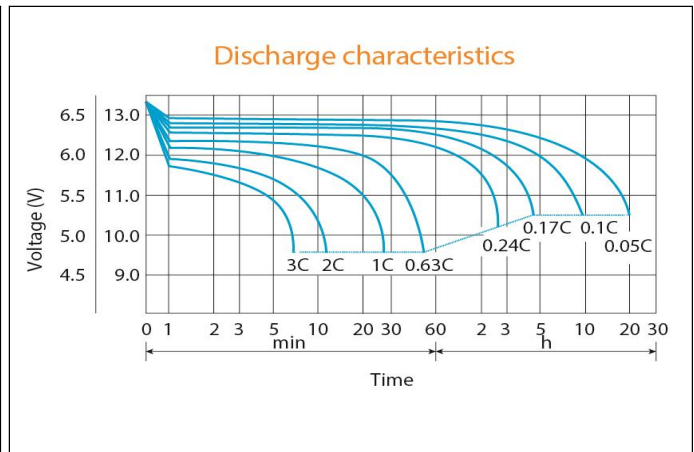
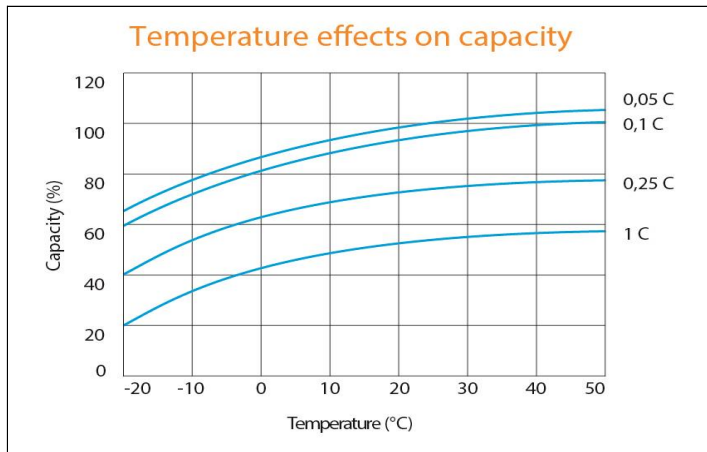


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	408	298	243	151	87,1	36,2	24,2	13,9	7,42
1,65	396	284	238	149	86,7	35,9	24,2	13,8	7,18
1,70	385	273	234	147	85,9	35,7	23,9	13,7	7,14
1,75	345	252	223	144	85,1	35,4	23,7	13,5	7,00
1,80	312	230	206	137	83,1	34,8	23,4	13,4	6,86

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	702	529	446	287	168	75,3	49,6	28,0	15,4
1,65	687	513	439	283	167	75,0	49,5	27,8	15,2
1,70	682	499	434	281	166	74,2	49,3	27,6	14,9
1,75	621	457	414	275	165	72,8	48,7	27,3	14,6
1,80	566	428	382	263	162	70,1	47,8	27,0	14,3



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