

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 (7,5 A; 1,75 V/cell).....150 Ah
 10 hours rate (14,6 A; 1,75 V/cell).....146 Ah
 5 hours rate (25,3 A; 1,70 V/cell).....126,5 Ah
 Self-discharge.....3% capacity per month 20°C
 Internal resistance (25°C).....4,1 mΩ

Operating temperature range

Discharge..... -10÷40°C
 Charge..... -20÷60°C
 Storage..... -20÷60°C
 Maximum dischrge current (25°C).....970A (5sec)
 Cycle mode (2,4÷2,45 V/cell)
 Max.charge current.....45 A
 Temperature correction factor.....30 mV/°C
 Standby mode (2,25÷2,3 V/cell)
 Temperature correction factor.....20 mV/°C

Application

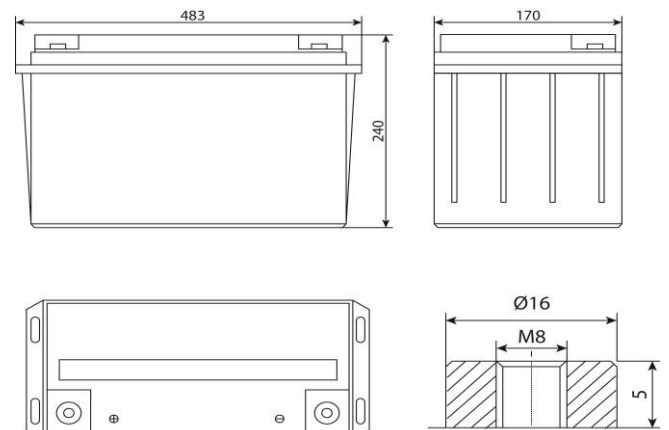
- Uninterruptable power supply
- Back up power supply
- Space-heating system
- Renewable energy systems

Performance & characteristics

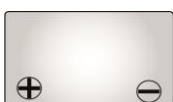
- AGM technology allows to recombine 99% of the generated gas;
- No restrictions on air transportation;
- Compliance with the UL requirements;
- Lead plates, alloyed by calcium, provide high energy density;
- Maintenance-free. Do not require distillate topping;
- Long service life;
- The battery case is made of flame-retardant ABS

Dimensions (±2mm)

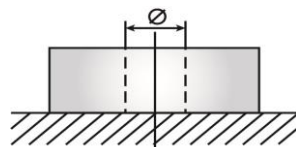
Length, mm.....483
 Width, mm.....170
 Height, mm.....240
 Height over terminals, mm.....240
 Weight (±3%), kg.....43,5



Layout B



Terminal type
Insert Ø8 mm

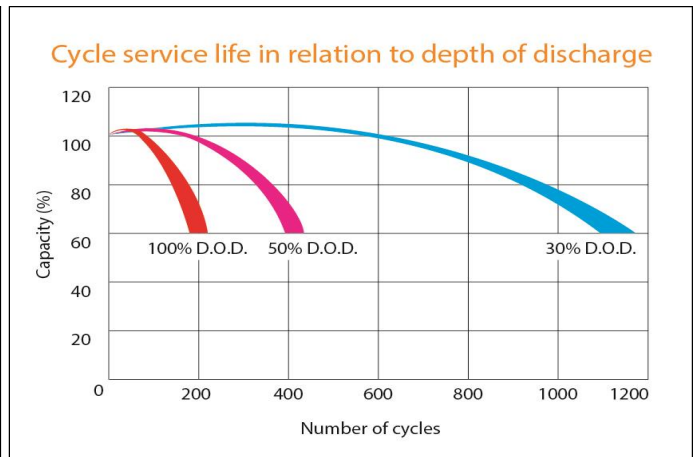
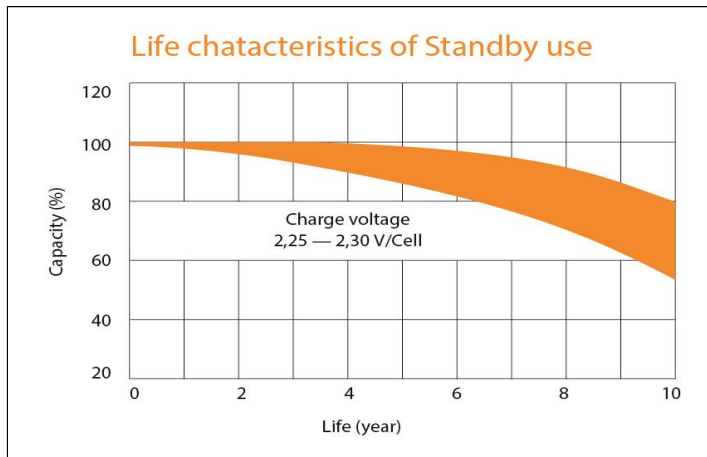
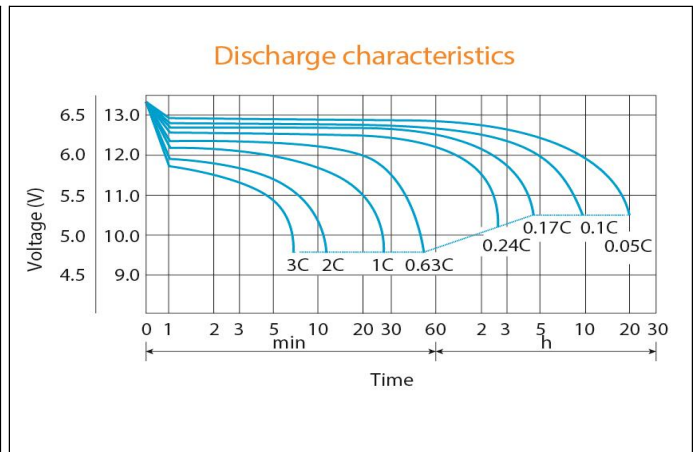
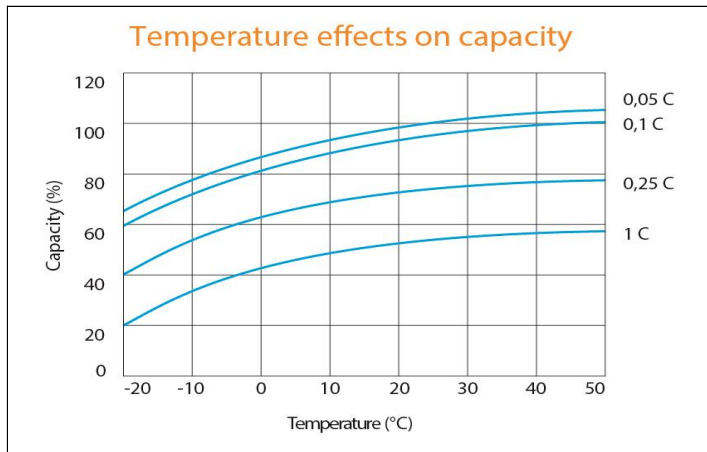


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	426	316	260	161	93,0	37,8	25,7	14,9	7,90
1,65	412	300	255	159	92,1	37,4	25,4	14,6	7,78
1,70	400	291	249	157	91,3	37,0	25,0	14,4	7,64
1,75	359	268	234	152	90,5	36,6	24,4	14,4	7,50
1,80	323	245	220	146	87,0	35,8	24,2	14,1	7,35

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	737	562	482	310	180	78,8	51,9	29,8	15,7
1,65	722	548	474	306	178	77,6	51,6	29,4	15,5
1,70	713	534	465	303	175	74,8	50,4	29,1	15,2
1,75	649	489	447	296	171	72,9	49,4	29,0	15,1
1,80	591	458	413	282	169	70,8	48,2	28,5	14,6



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