

The ASTERION DTM I series sealed lead-acid batteries are manufactured using AGM technology (electrolyte absorbed in a fiberglass separator), equipped with an LCD display that shows the battery operation status: voltage, capacity and number of days in use.

DTM I series relates to the "Long Life" product line with up to 12 years service life, with the possibility of increasing it by 15-30% with a single replenishment (topping up) of a specialized component solution.

They are recommended for use in uninterruptible power supplies, in electro-medical equipment, wheelchairs, boilers for heating systems, pumps, etc.



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.....	10-12 years
Nominal capacity (25°C)	
20 hours rate (3,75 A; 1,75 V/cell).....	75 Ah
5 hours rate (12 A; 1,75 V/cell).....	60 Ah
1 hours rate (42,8 A; 1,6 V/cell).....	42,8 Ah
Self-discharge.....	3% capacity per month 25°C
Internal resistance (25°C).....	4,8 mΩ

Operating temperature range

Discharge.....	-20÷60°C
Charge.....	-10÷60°C
Storage.....	-20÷60°C
Maximum discharge current (25°C).....	700A (5sec)
Cycle mode (2,35÷2,4 V/cell)	
Max.charge current.....	22,5 A
Temperature correction factor.....	30 mV/°C
Standby mode (2,25÷2,3 V/cell)	
Temperature correction factor.....	20 mV/°C

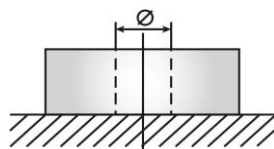
Application

- Uninterruptable power supply
- Back up power supply
- Medical devices
- Control current cabinet
- Space-heating system
- Heating and water supply systems

Layout
B



Terminal type
Insert Ø6 mm

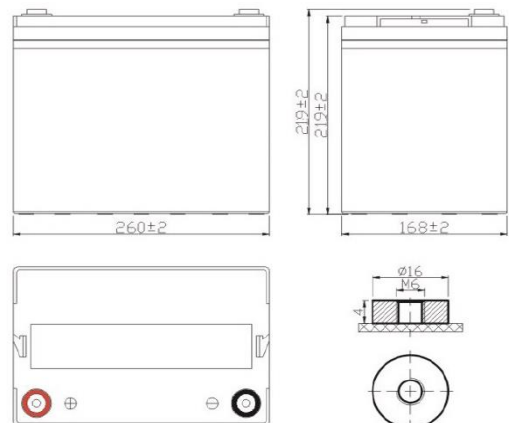


Performance & characteristics

- LCD display showing battery status;
- Sound alarm in case of need to check the battery;
- Compliance with the UL requirements;
- Additional containers for topping up a specialized solution allow to increase battery life up to 15-30%;
- Patented IC Power Technology;
- High energy density;
- The battery case is made of flame-retardant ABS plastic.

Dimensions (±2mm)

Length, mm.....	260
Width, mm.....	168
Height, mm.....	219
Height over terminals, mm.....	219
Weight (±3%), kg.....	21,7

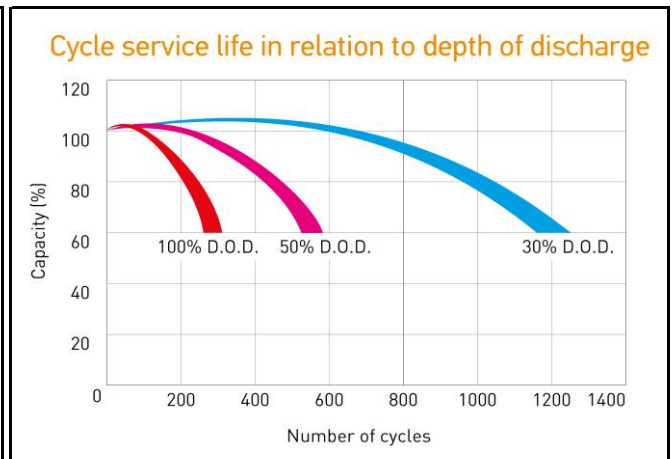
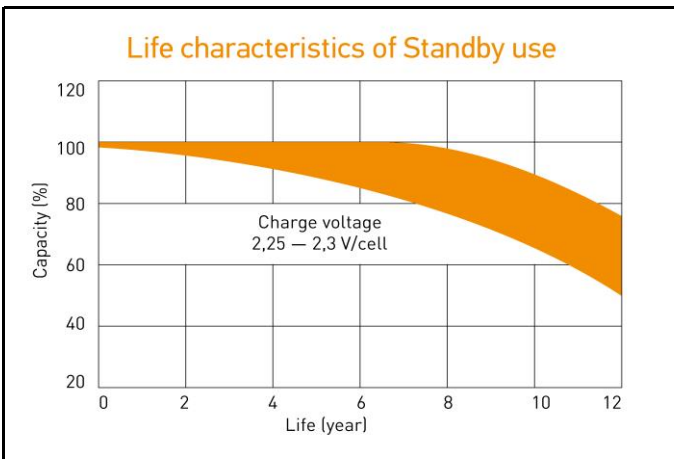
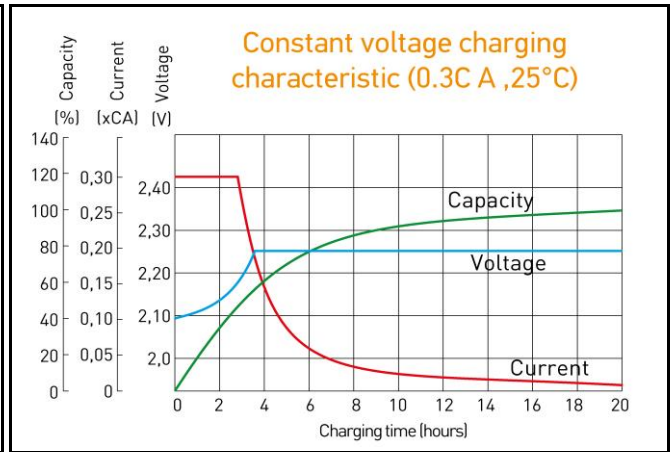
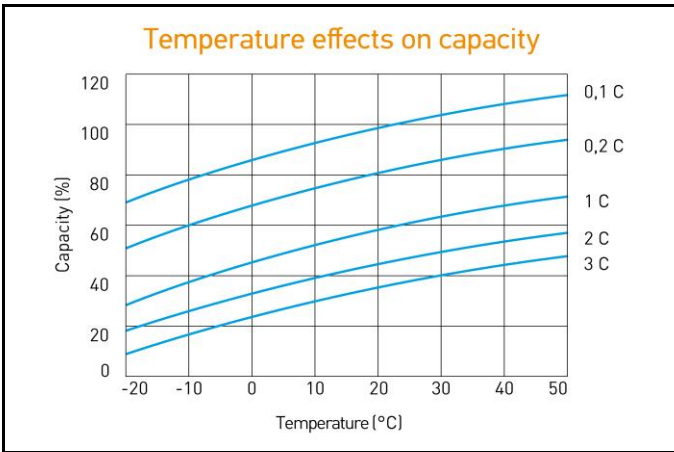


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	213	142	112	70,0	42,8	17,4	12,4	6,92	3,78
1,65	207	139	110	69,0	41,8	17,3	12,3	6,89	3,77
1,70	203	135	108	67,9	40,8	17,3	12,2	6,87	3,75
1,75	191	131	105	66,0	39,7	17,0	12,0	6,83	3,75
1,80	179	127	102	64,0	39,1	16,9	11,9	6,82	3,74

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	392	268	214	138	85,1	36,0	25,6	14,4	7,50
1,65	380	265	210	136	83,0	35,8	25,3	14,2	7,42
1,70	369	258	205	133	81,0	35,5	25,1	14,0	7,30
1,75	350	246	201	129	79,0	35,0	24,8	13,8	7,19
1,80	336	240	196	126	77,5	34,7	24,6	13,6	7,13



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