

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)	
10 hours rate (12 A; 1,8 V/cell).....	120 Ah
5 hours rate (18,9 A; 1,75 V/cell).....	94,5 Ah
1 hours rate (72,1 A; 1,6 V/cell).....	72,1 Ah
Self-discharge.....	3% capacity per month 25°C
Internal resistance (25°C).....	3,6 mΩ

Operating temperature range

Discharge.....	-20÷60°C
Charge.....	-10÷60°C
Storage.....	-20÷60°C
Maximum discharge current (25°C).....	950A (5sec)
Cycle mode (2,35÷2,4 V/cell)	
Max.charge current.....	36 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

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.

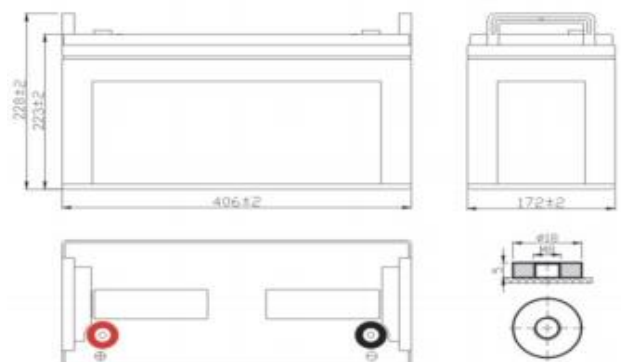
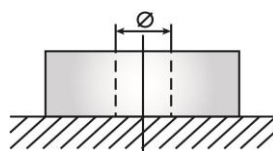
Dimensions (±2mm)

Length, mm.....	406
Width, mm.....	172
Height, mm.....	223
Height over terminals, mm.....	228
Weight (±3%), kg.....	37,4

Layout B



Terminal type Insert Ø8 mm

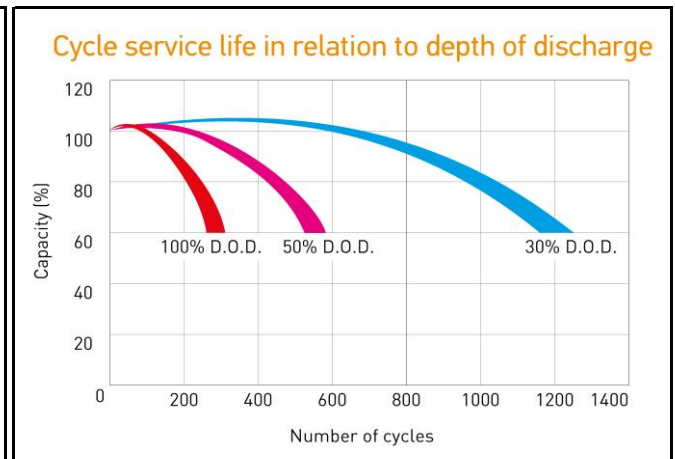
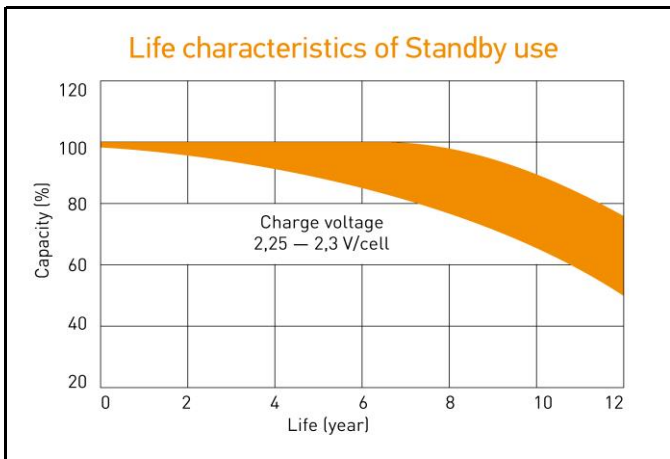
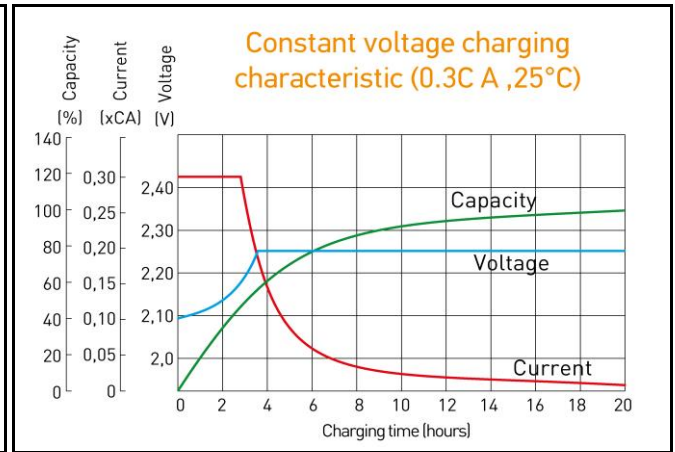
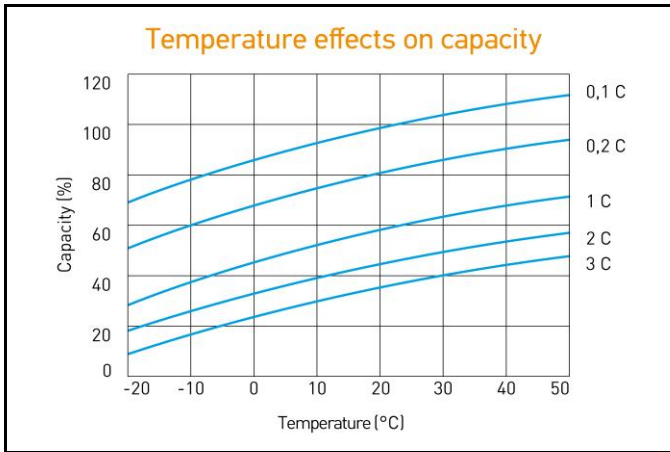


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	355	254	205	115	85,4	72,1	29,4	20,0	12,2
1,65	329	240	198	112	84,2	71,7	28,9	19,8	12,2
1,70	307	228	190	108	81,8	70,2	28,3	19,4	12,1
1,75	289	213	181	104	78,9	67,9	27,5	18,9	12,0
1,80	268	200	174	102	77,0	65,9	26,7	18,6	12,0

Discharge Constant Power, W/cell (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	604	451	361	221	169	145	57,0	40,0	24,5
1,65	566	430	349	214	165	143	56,3	39,7	24,4
1,70	535	407	338	207	161	141	55,8	39,6	24,2
1,75	502	386	324	201	156	137	55,2	39,3	24,2
1,80	476	360	314	195	151	131	54,0	39,0	24,2



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE