

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 (20 A; 1,8 V/cell).....	200 Ah
5 hours rate (35,9 A; 1,75 V/cell).....	179,5 Ah
1 hours rate (126 A; 1,6 V/cell).....	126 Ah
Self-discharge.....	3% capacity per month 25°C
Internal resistance (25°C).....	2,5 mΩ

Operating temperature range

Discharge.....	-20÷60°C
Charge.....	-10÷60°C
Storage.....	-20÷60°C
Maximum discharge current (25°C).....	1000A (5sec)
Cycle mode (2,35÷2,4 V/cell)	
Max.charge current.....	60 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.

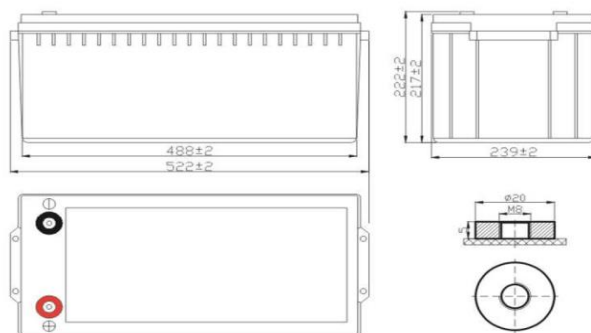
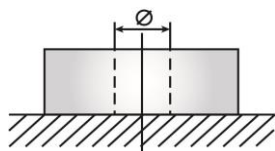
Dimensions (±2mm)

Length, mm.....	522
Width, mm.....	239
Height, mm.....	217
Height over terminals, mm.....	222
Weight (±3%), kg.....	61

Layout
E



Terminal type
Insert Ø8 mm

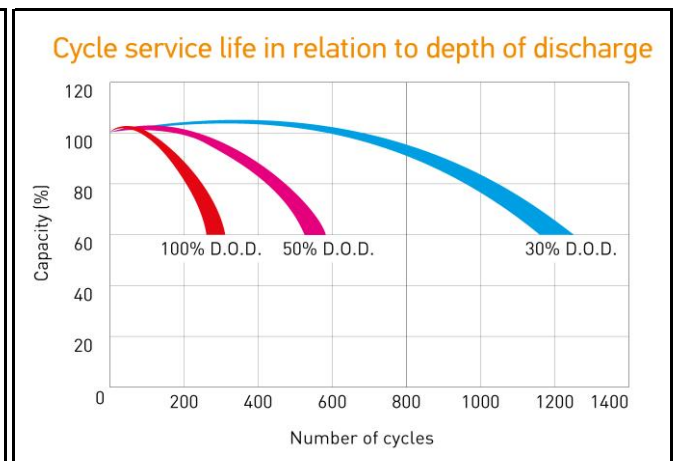
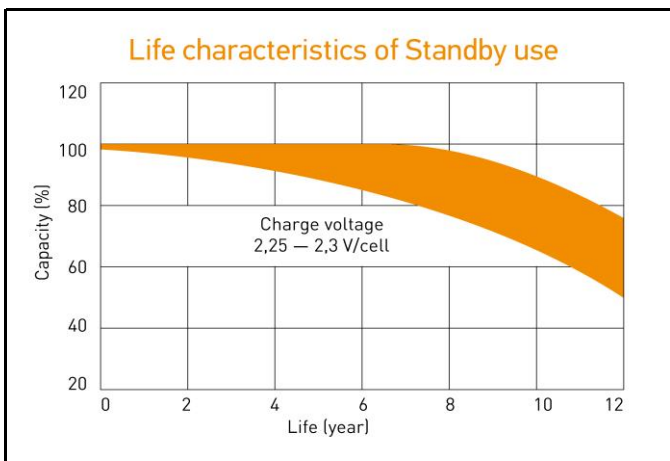
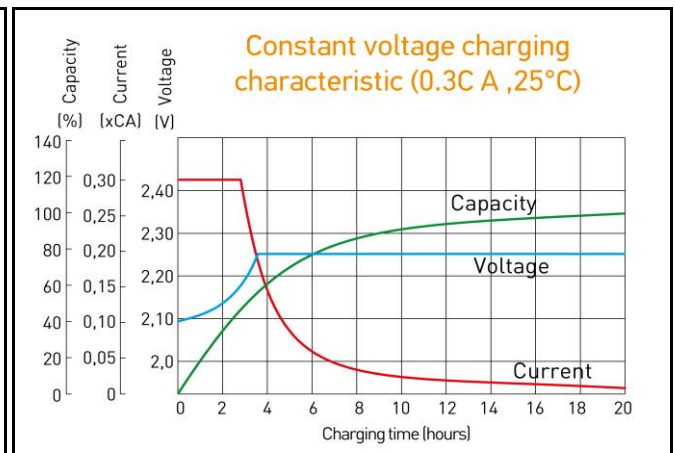
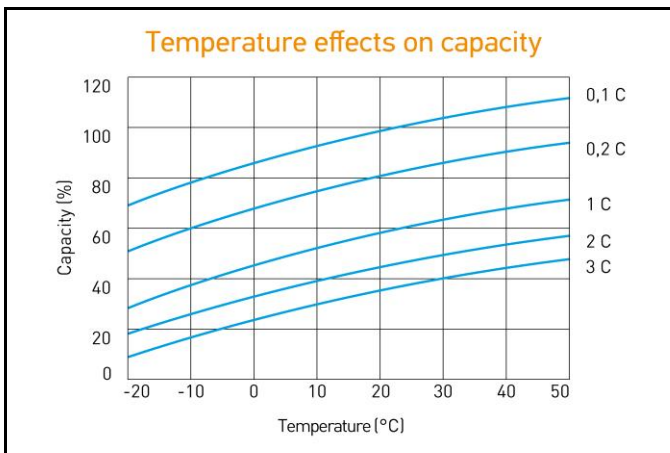


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	604	433	355	207	154	126	54,4	37,9	20,2
1,65	562	413	344	205	152	122	53,7	36,7	20,2
1,70	534	396	330	200	149	118	52,8	36,2	20,1
1,75	505	375	314	196	145	115	52,7	35,9	20,0
1,80	439	324	264	183	140	112	51,0	35,4	20,0

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	1 019	742	613	395	289	226	107	71,0	36,0
1,65	953	717	593	383	280	221	105	70,5	35,9
1,70	907	693	577	375	275	217	103	69,6	35,8
1,75	891	668	566	366	269	213	99,0	68,4	35,7
1,80	775	588	485	349	265	211	96,5	66,7	35,6



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