

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 (6,5 A; 1,8 V/cell).....	65 Ah
5 hours rate (10,6 A; 1,75 V/cell).....	53 Ah
1 hours rate (41 A; 1,6 V/cell).....	41 Ah
Self-discharge.....	3% capacity per month 25°C
Internal resistance (25°C).....	5,6 mΩ

### Operating temperature range

Discharge.....	-20+60°C
Charge.....	-10+60°C
Storage.....	-20+60°C
Maximum discharge current (25°C).....	650A (5sec)
Cycle mode (2,35±2,4 V/cell)	
Max.charge current.....	19,5 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

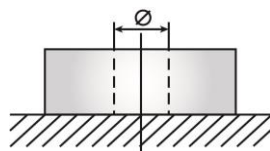
#### Layout

E



#### Terminal type

Insert Ø6 mm

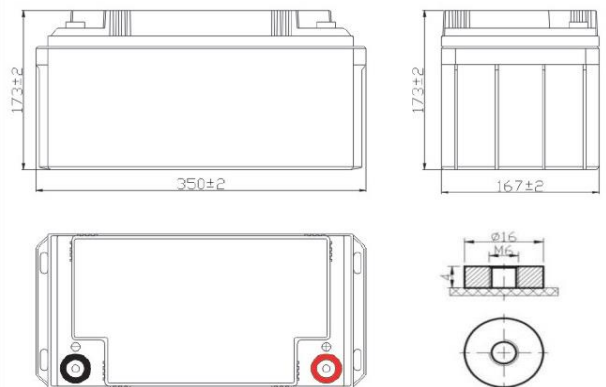


### Performance & characteristics

- 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.....	350
Width, mm.....	167
Height, mm.....	173
Height over terminals, mm.....	173
Weight (±3%), kg.....	20,9

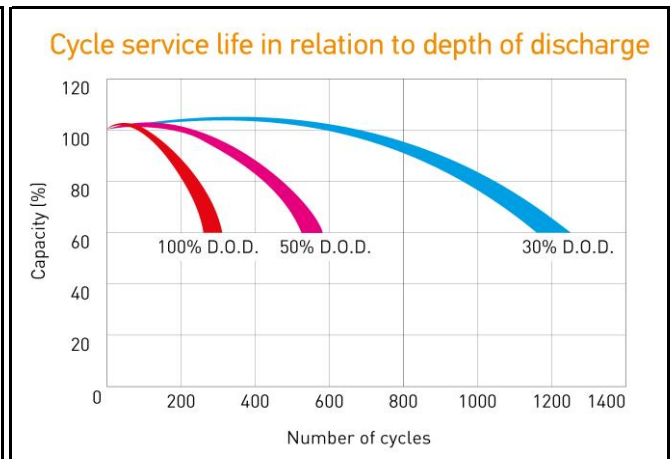
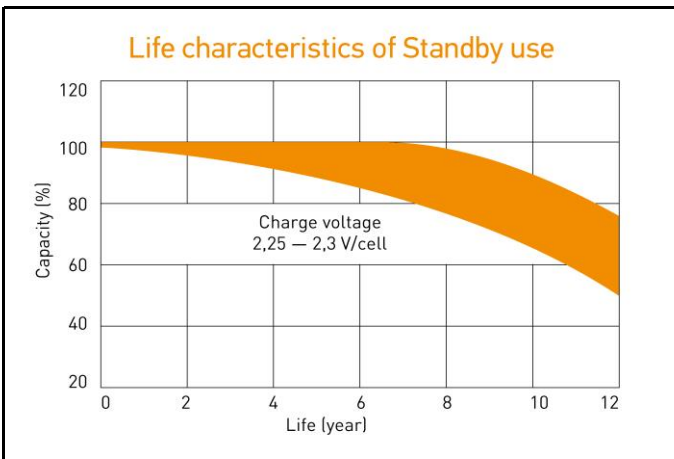
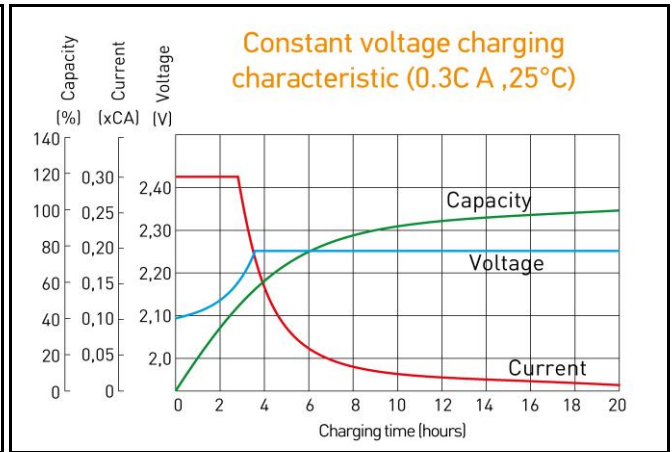
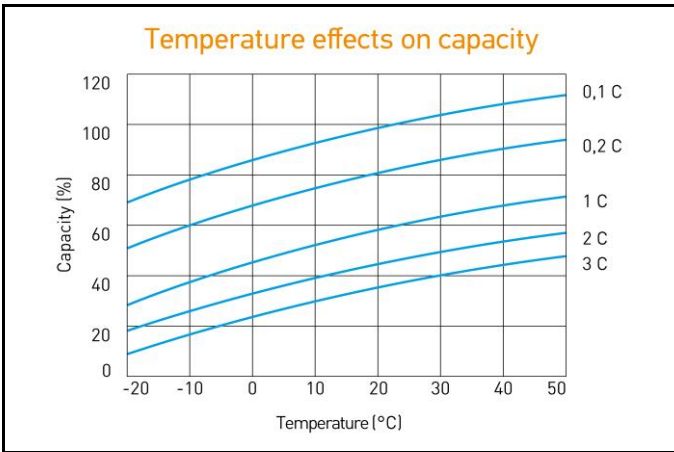


**Discharge Constant Current, A ( 25°C)**

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	206	144	110	67,3	51,0	41,0	16,8	11,7	6,64
1,65	192	139	108	65,5	50,3	40,1	16,2	11,0	6,63
1,70	181	136	106	63,3	47,8	39,5	15,9	10,8	6,65
1,75	169	124	104	61,0	46,5	38,5	15,4	10,6	6,54
1,80	156	114	94,7	58,8	45,5	37,5	15,1	10,4	6,51

**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	361	267	193	117	88,9	77,5	33,2	22,1	12,6
1,65	341	253	190	116	87,8	75,5	32,5	21,9	12,4
1,70	320	239	187	115	86,5	74,1	31,9	21,4	12,3
1,75	299	224	182	112	84,2	72,3	31,2	21,2	12,2
1,80	286	209	174	110	82,9	71,6	30,5	21,0	12,2



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