

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 (25 A; 1,8 V/cell).....	250 Ah
5 hours rate (43,2 A; 1,75 V/cell).....	216 Ah
1 hours rate (158 A; 1,6 V/cell).....	158 Ah
Self-discharge.....	3% capacity per month 25°C
Internal resistance (25°C).....	2,4 mΩ

Operating temperature range

Discharge.....	-20÷60°C
Charge.....	-10÷60°C
Storage.....	-20÷60°C
Maximum discharge current (25°C).....	1250A (5sec)
Cycle mode (2,35÷2,4 V/cell)	
Max.charge current.....	75 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.

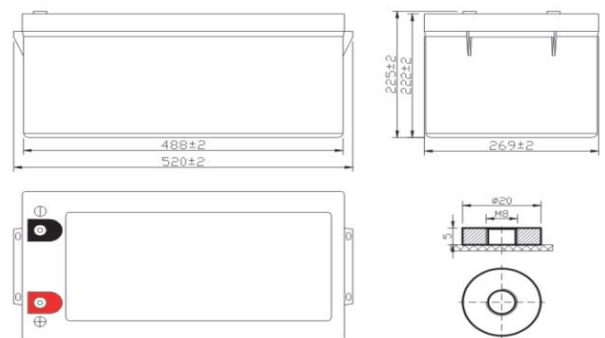
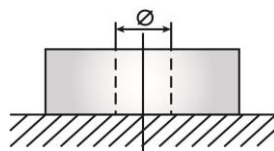
Dimensions (±2mm)

Length, mm.....	520
Width, mm.....	269
Height, mm.....	222
Height over terminals, mm.....	225
Weight (±3%), kg.....	73

Layout
F



Terminal type
Insert Ø8 mm

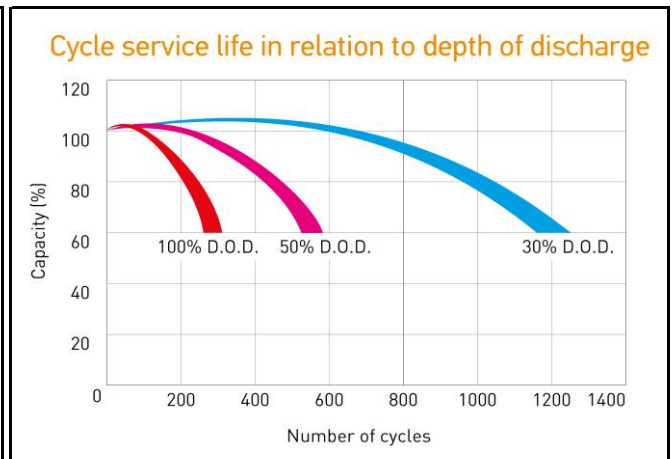
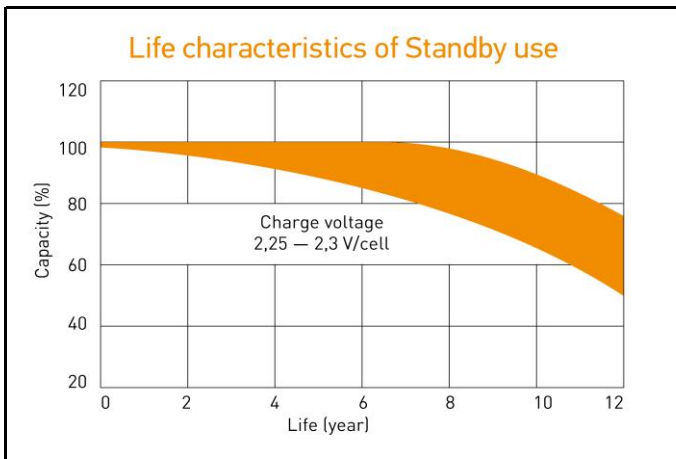
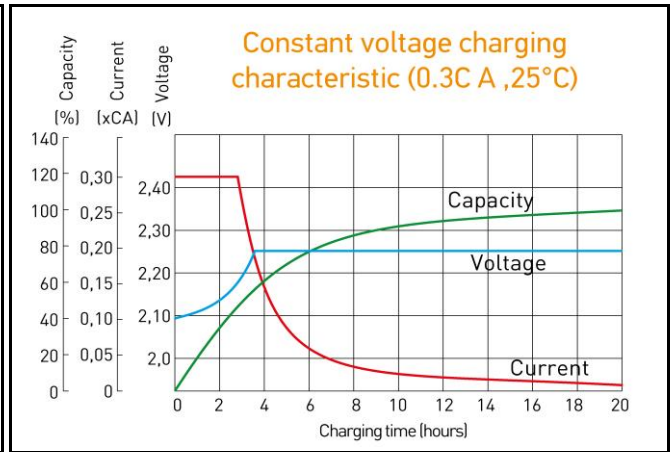
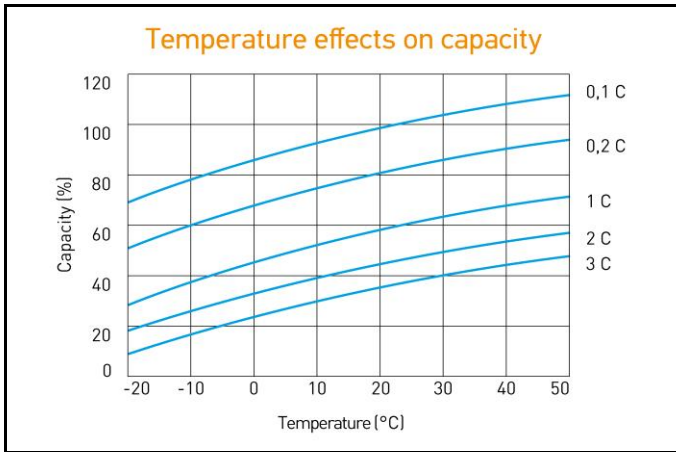


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	793	567	401	258	192	158	65,1	44,5	25,4
1,65	736	539	393	251	186	155	64,8	43,9	25,3
1,70	686	511	388	247	182	152	63,7	43,8	25,1
1,75	642	476	377	243	179	149	60,9	43,2	25,0
1,80	606	451	367	234	175	144	60,1	42,9	25,0

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	1 350	983	774	505	373	309	128	88,9	51,4
1,65	1 252	931	759	491	359	299	127	87,8	51,3
1,70	1 169	882	743	481	353	294	125	87,5	51,2
1,75	1 098	824	725	462	342	287	124	86,4	51,1
1,80	1 034	782	681	449	337	280	123	85,0	50,9



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE