

Sealed maintenance-free lead-acid batteries series DTM L ASTERION brand are manufactured by AGM technology (electrolyte absorbed in glass fiber separators) and equipped with VRLA valves. Series DTM L refers to a Long-Life series with a service-life up to 12 years.

Due to a wide range of batteries and their high performance, are recommended for use in a variety of uninterruptible power supply systems, including exacting electrical appliances (submersible and circulation pumps, boilers of heating systems), emergency power supply and other electrical devices.



### 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 (19,2 A; 1,75 V/cell).....	96 Ah
1 hours rate (73,3 A; 1,6 V/cell).....	73,3 Ah
Self-discharge.....	3% capacity per month 25°C
Internal resistance (25°C).....	4,4 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
- Wheelchair
- Space-heating system
- Renewable energy systems

### Performance & characteristics

- AGM technology allows to recombine 99% of the generated gas;
- No restrictions on air transportation;
- Compliance with the UL requirements;
- Lead plates, alloyed by calcium, provide high energy density;
- Maintenance-free. Do not require distillate topping;
- Long service life;
- The battery case is made of flame-retardant ABS plastic.

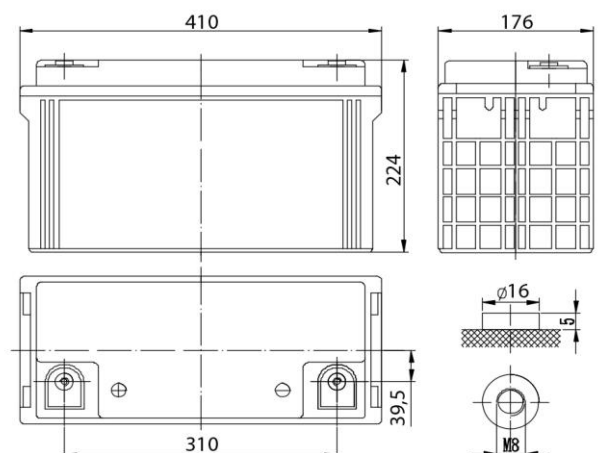
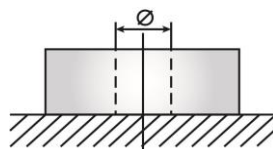
### Dimensions (±2mm)

Length, mm.....	410
Width, mm.....	176
Height, mm.....	224
Height over terminals, mm.....	224
Weight (±3%), kg.....	34

Layout  
B



Terminal type  
Insert Ø8 mm

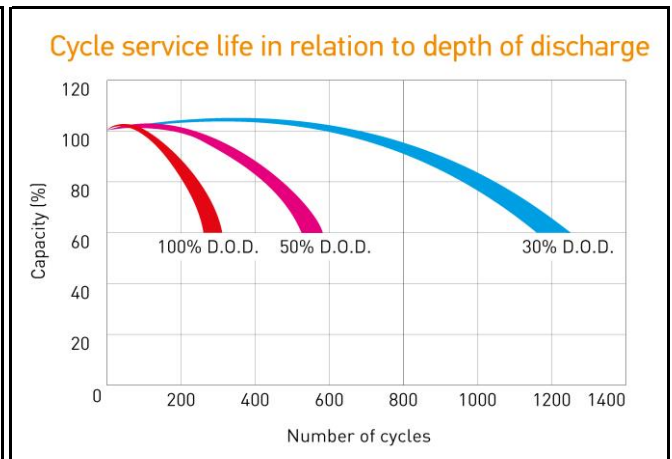
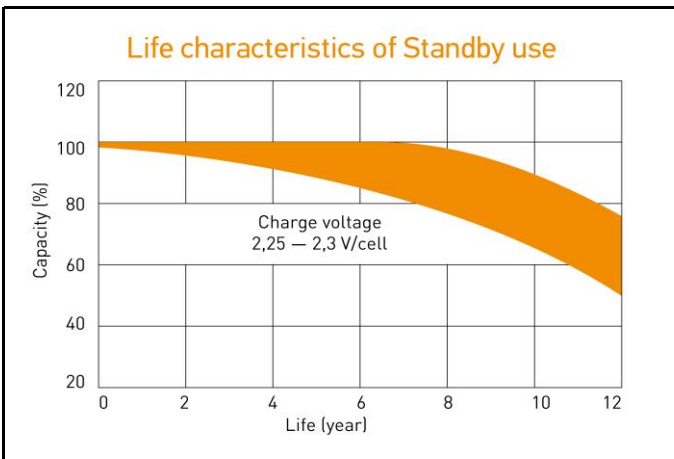
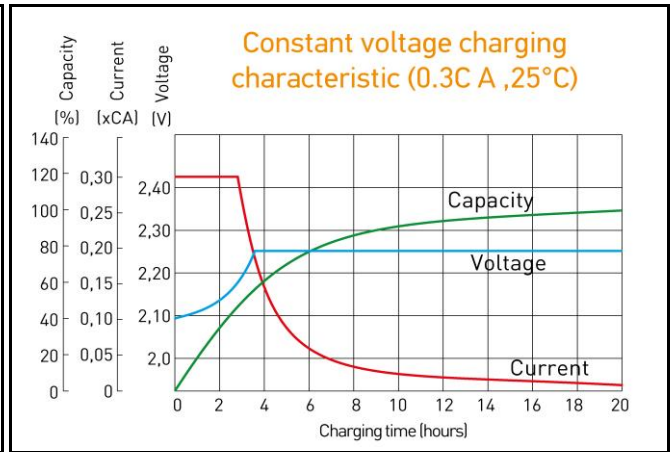
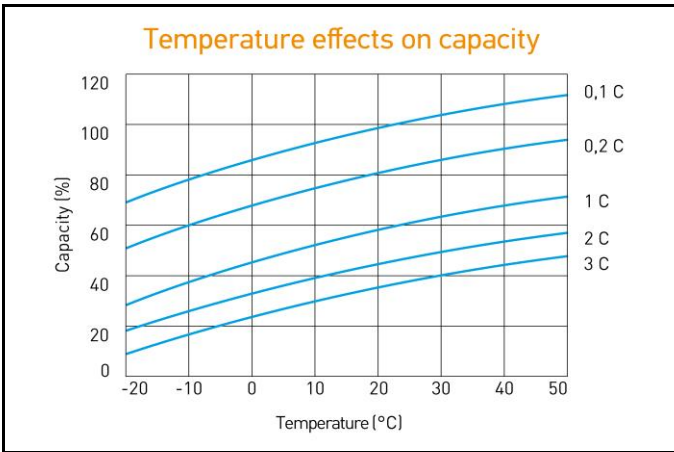


**Discharge Constant Current, A ( 25°C)**

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	360	258	209	117	86,9	73,3	29,9	20,3	12,4
1,65	335	244	201	114	85,5	72,8	29,3	20,1	12,3
1,70	314	231	193	110	83,1	71,3	28,7	19,7	12,2
1,75	294	217	184	106	80,3	69,1	28,0	19,2	12,1
1,80	273	203	177	104	78,3	67,0	27,2	18,9	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	616	460	367	225	172	147	58,0	40,7	24,8
1,65	576	437	354	218	168	145	57,3	40,5	24,7
1,70	546	414	343	211	164	143	56,6	40,2	24,7
1,75	512	392	331	204	159	139	56,0	40,0	24,6
1,80	484	367	319	198	153	134	55,0	39,6	24,6



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