

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 (4 A; 1,8 V/cell).....	40 Ah
5 hours rate (6,83 A; 1,75 V/cell).....	34,15 Ah
1 hours rate (24,9 A; 1,6 V/cell).....	24,9 Ah
Self-discharge.....	3% capacity per month 25°C
Internal resistance (25°C).....	9,7 mΩ

Operating temperature range

Discharge.....	-20÷60°C
Charge.....	-10÷60°C
Storage.....	-20÷60°C
Maximum discharge current (25°C).....	400A (5sec)
Cycle mode (2,35÷2,4 V/cell)	
Max.charge current.....	12 A
Temperature correction factor.....	30 mV/°C
Standby mode (2,25÷2,3 V/cell)	
Temperature correction factor.....	20 mV/°C

Application

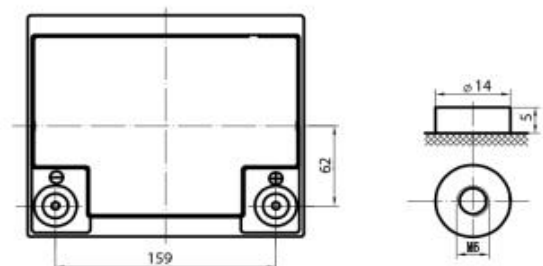
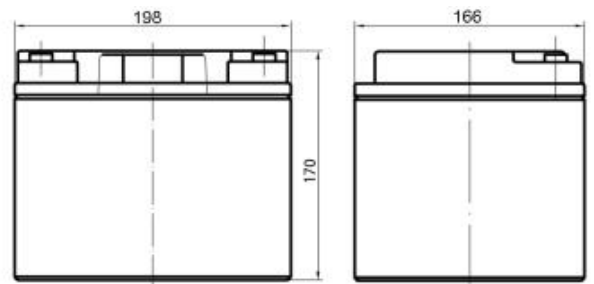
- Uninterruptable power supply
- Back up power supply
- Medical devices
- Wheelchair
- Space-heating system
- Renewable energy systems

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)

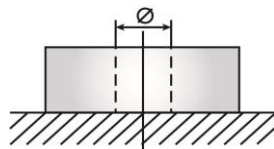
Length, mm.....	198
Width, mm.....	166
Height, mm.....	170
Height over terminals, mm.....	170
Weight (±3%), kg.....	14



Layout
E



Terminal type
Insert Ø6 mm

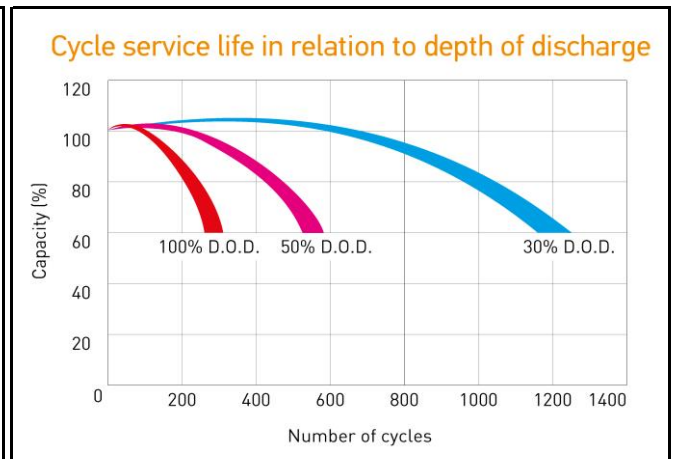
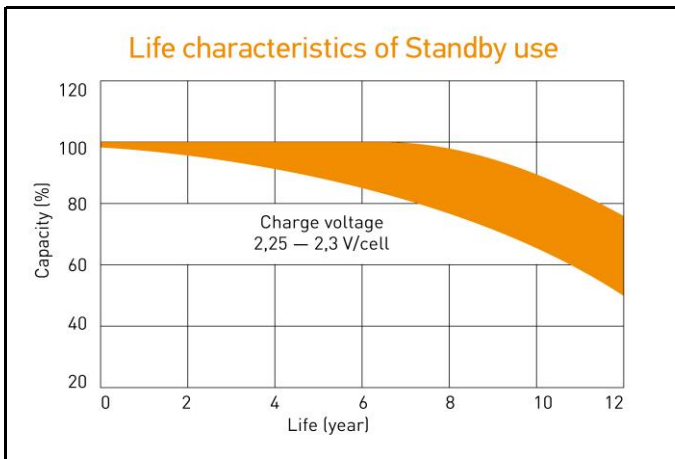
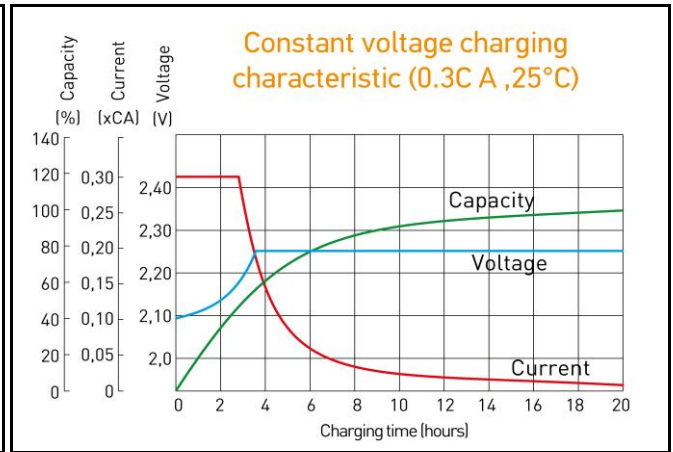
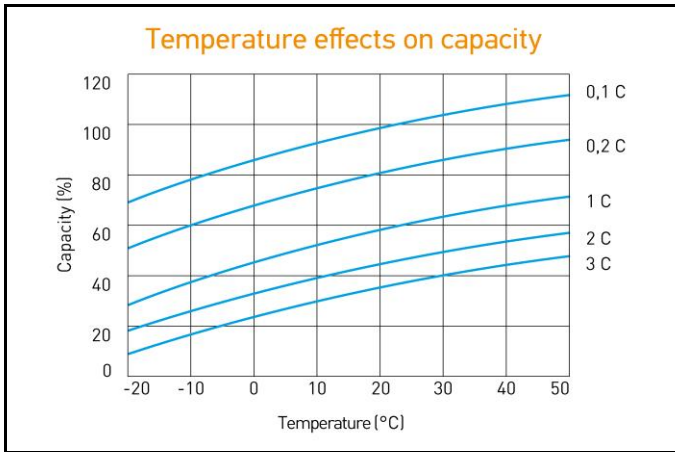


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	127	86,5	70,7	39,9	29,6	24,9	10,3	7,22	4,20
1,65	119	82,2	67,1	38,7	29,0	24,6	10,1	7,10	4,15
1,70	109	77,8	64,5	37,3	28,2	24,2	9,89	6,97	4,10
1,75	101	73,6	61,0	36,1	27,6	23,9	9,65	6,83	4,05
1,80	92,9	69,9	55,2	35,8	27,2	23,5	9,43	6,66	4,00

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	230	158	124	81,2	60,3	49,9	21,0	14,0	8,10
1,65	214	152	120	78,8	58,8	49,2	20,7	13,8	8,02
1,70	198	144	117	76,3	57,3	48,3	20,3	13,6	7,95
1,75	182	138	113	73,8	55,8	47,5	20,0	13,4	7,89
1,80	171	130	109	71,3	54,0	46,7	19,6	13,3	7,85



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