

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 (25 A; 1,8 V/cell).....250 Ah
 5 hours rate (45,6 A; 1,75 V/cell).....228 Ah
 1 hours rate (169 A; 1,6 V/cell).....169 Ah
 Self-discharge.....3% capacity per month 25°C
 Internal resistance (25°C).....3 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

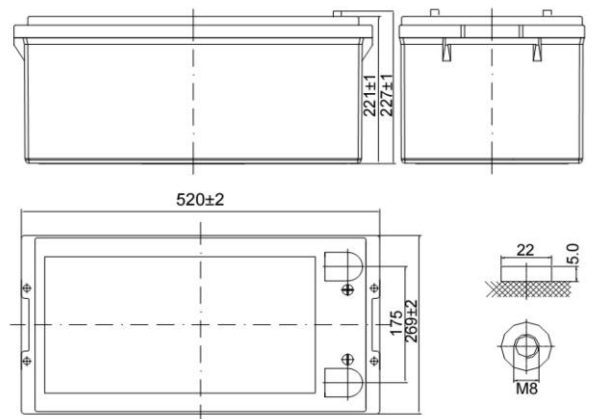
- Uninterruptable power supply
- Back up power supply
- Medical devices
- Wheelchair
- Space-heating system
- Renewable energy systems

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)

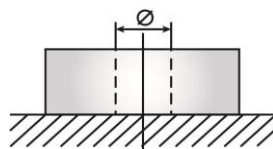
Length, mm.....520
 Width, mm.....269
 Height, mm.....221
 Height over terminals, mm.....227
 Weight (±3%), kg.....74



Layout
F



Terminal type
Insert Ø8 mm

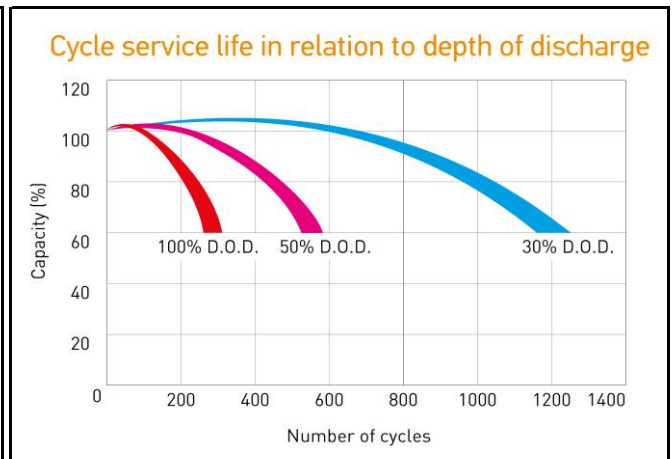
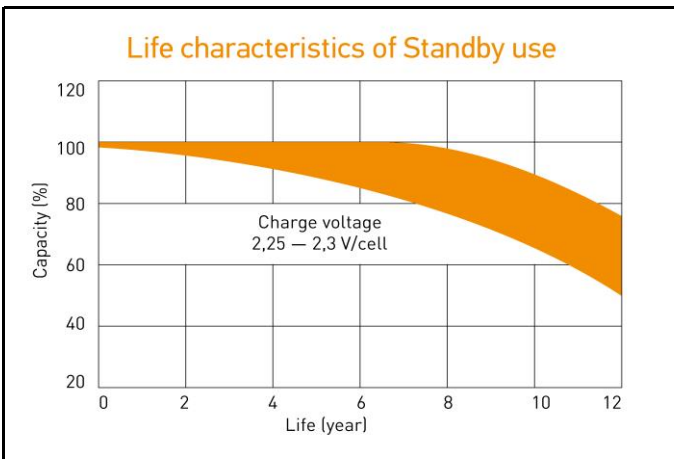
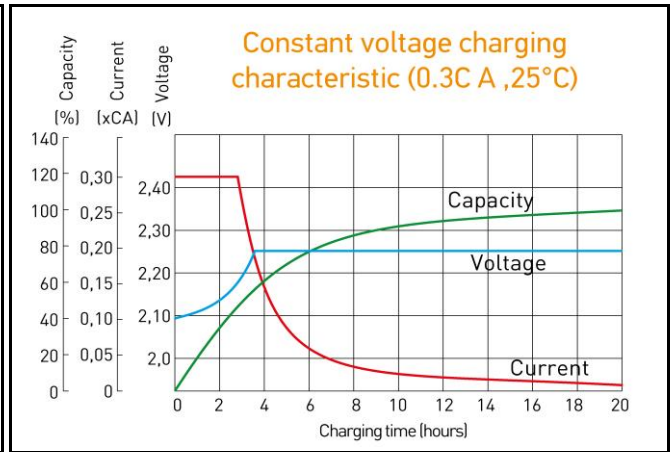
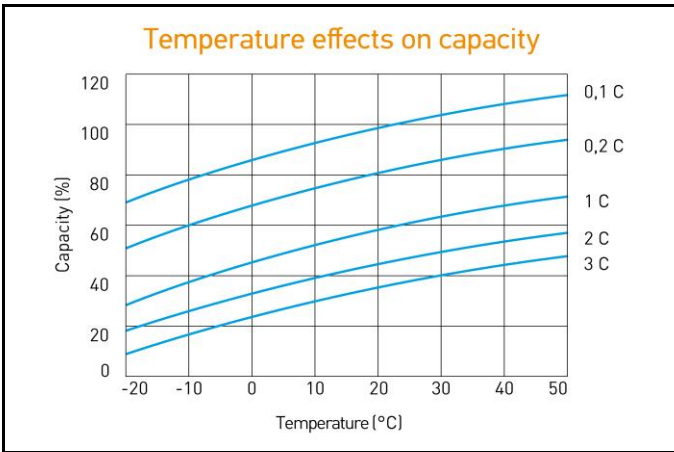


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	805	579	486	288	205	169	76,2	49,5	25,6
1,65	748	548	452	271	196	161	73,3	47,7	25,4
1,70	699	517	436	265	192	158	72,0	47,0	25,3
1,75	656	486	406	252	187	154	69,9	45,6	25,2
1,80	616	461	375	241	185	150	67,7	44,6	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	1 371	999	850	522	380	315	144	93,8	51,4
1,65	1 275	945	808	498	365	305	140	92,4	51,2
1,70	1 191	898	784	488	361	299	138	91,0	50,8
1,75	1 117	839	740	471	349	292	132	88,2	49,7
1,80	1 050	795	693	458	342	285	128	85,4	48,9



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