

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 (3,3 A; 1,8 V/cell)..... | 33 Ah |
| 5 hours rate (5,58 A; 1,75 V/cell)..... | 27,9 Ah |
| 1 hours rate (22,3 A; 1,6 V/cell)..... | 22,3 Ah |
| Self-discharge..... | 3% capacity per month 25°C |
| Internal resistance (25°C)..... | 12 mΩ |

Operating temperature range

| | |
|---------------------------------------|-------------|
| Discharge..... | -20÷60°C |
| Charge..... | -10÷60°C |
| Storage..... | -20÷60°C |
| Maximum discharge current (25°C)..... | 330A (5sec) |
| Cycle mode (2,35÷2,4 V/cell) | |
| Max.charge current..... | 9,9 A |
| Temperature correction factor..... | 30 mV/°C |
| Standby mode (2,25÷2,3 V/cell) | |
| Temperature correction factor..... | 20 mV/°C |

Application

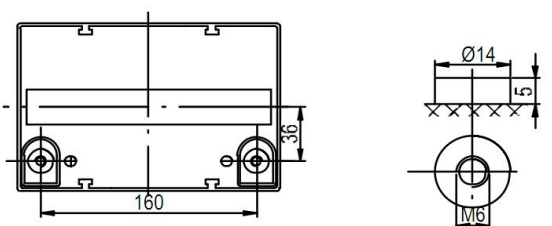
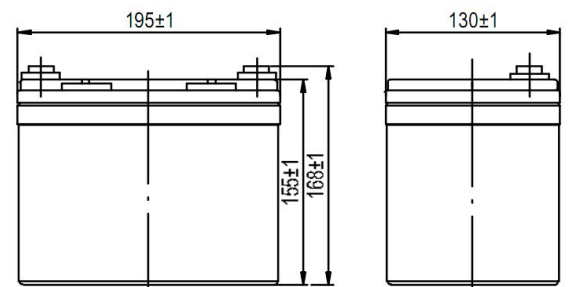
- Uninterruptable power supply
- Back up power supply
- Medical devices
- Wheelchair
- Space-heating system
- Renewable energy systems

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)

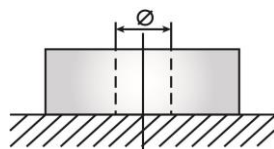
| | |
|--------------------------------|------|
| Length, mm..... | 195 |
| Width, mm..... | 130 |
| Height, mm..... | 155 |
| Height over terminals, mm..... | 168 |
| Weight (±3%), kg..... | 10,1 |



Layout B



Terminal type Insert Ø6 mm

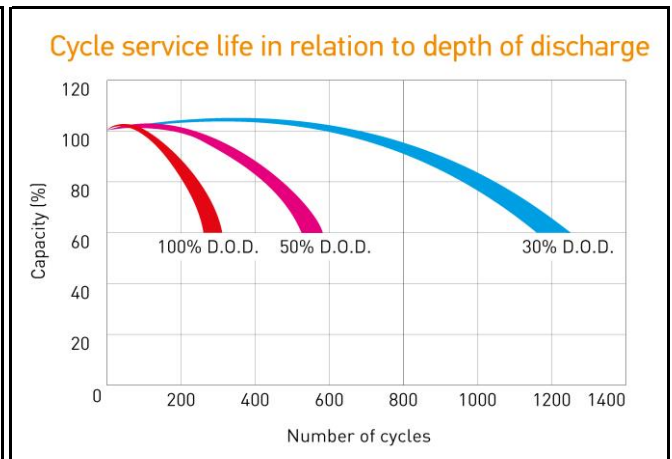
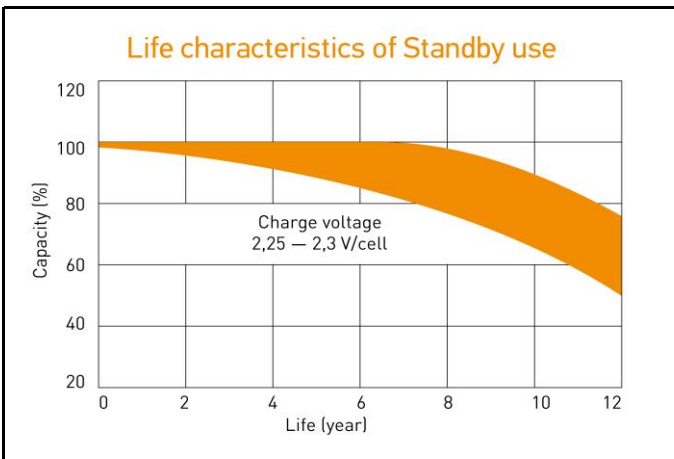
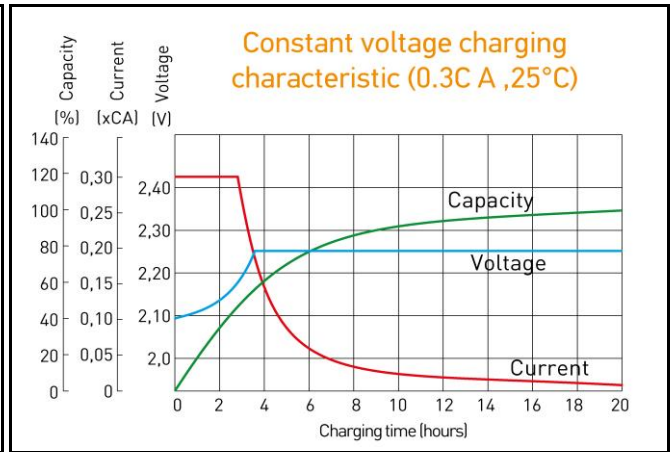
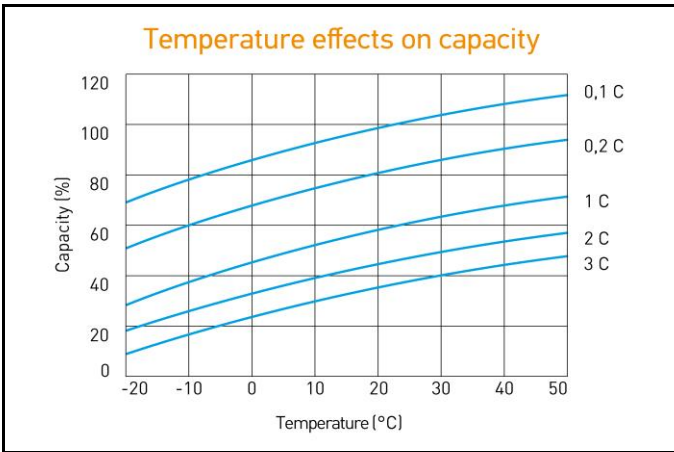


Discharge Constant Current, A (25°C)

| V/cell | 5 min | 10 min | 15 min | 30 min | 45 min | 1 h | 3 h | 5 h | 10 h |
|--------|-------|--------|--------|--------|--------|------|------|------|------|
| 1,60 | 122 | 74,8 | 57,1 | 32,6 | 25,3 | 22,3 | 9,08 | 6,30 | 3,36 |
| 1,65 | 112 | 70,2 | 54,1 | 31,3 | 24,6 | 21,9 | 8,97 | 6,25 | 3,35 |
| 1,70 | 103 | 64,8 | 51,4 | 30,4 | 23,9 | 21,2 | 8,45 | 6,15 | 3,32 |
| 1,75 | 95,7 | 60,6 | 47,8 | 29,4 | 23,0 | 20,3 | 8,25 | 5,58 | 3,31 |
| 1,80 | 86,9 | 55,5 | 44,8 | 28,8 | 22,4 | 19,8 | 8,18 | 5,50 | 3,30 |

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 | 208 | 132 | 100 | 65,3 | 48,8 | 40,9 | 17,4 | 12,2 | 6,34 |
| 1,65 | 200 | 125 | 98,6 | 61,7 | 47,1 | 40,5 | 17,3 | 11,9 | 6,27 |
| 1,70 | 187 | 119 | 95,7 | 60,0 | 46,0 | 39,9 | 16,8 | 11,5 | 6,13 |
| 1,75 | 178 | 112 | 92,0 | 58,0 | 44,8 | 39,1 | 16,0 | 11,3 | 6,06 |
| 1,80 | 170 | 106 | 89,0 | 56,0 | 43,6 | 38,3 | 15,2 | 11,0 | 6,00 |



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