

VRLA sealed lead acid batteries ASTERION DT series are specifically designed for use in low current systems. They are manufactured using AGM technology (electrolyte absorbed in a fiberglass separator).

ASTERION DT series batteries comes with a good price-performance ratio, which leads to the widespread use of the series in fire alarms and other security systems.

Meeting the international security standards, they are recommended for use in access control and management systems.



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 years
 Nominal capacity (25°C)
 20 hours rate (10 A; 1,75 V/cell).....200 Ah
 10 hours rate (18 A; 1,75 V/cell).....180 Ah
 5 hours rate (33,6 A; 1,70 V/cell).....168 Ah
 Self-discharge.....3% capacity per month 25°C
 Internal resistance (25°C).....5 mΩ

Operating temperature range

Discharge..... -15÷50°C
 Charge..... -10÷50°C
 Storage..... -20÷50°C
 Maximum discharge current (25°C).....1500A (5sec)
 Cycle mode (2,4÷2,5 V/cell)
 Max.charge current.....60 A
 Temperature correction factor.....30 mV/°C
 Standby mode (2,27÷2,3 V/cell)
 Temperature correction factor.....20 mV/°C

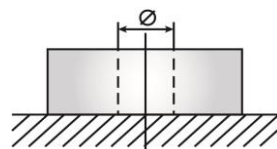
Application

- Safety system
- Electronic Cash Registers (ECR)
- Electronic test equipment
- Emergency light systems
- Geophysical and geodetic equipment
- Control and access systems

Layout
F



Terminal type
Insert Ø8

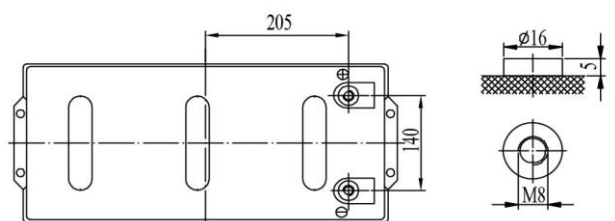
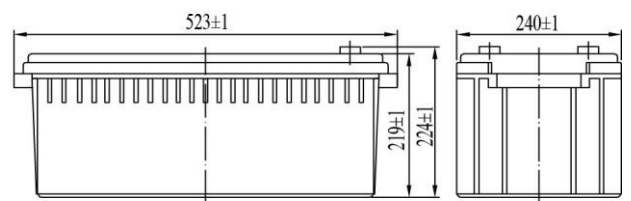


Performance & characteristics

- 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

Dimensions (±2mm)

Length, mm.....522
 Width, mm.....238
 Height, mm.....218
 Height over terminals, mm.....222
 Weight (±3%), kg.....54

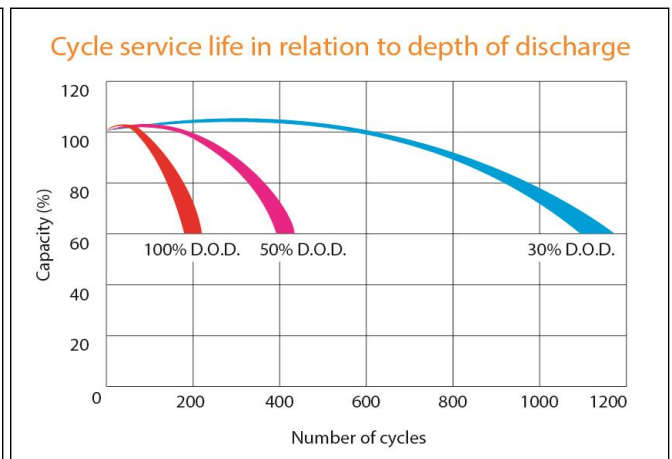
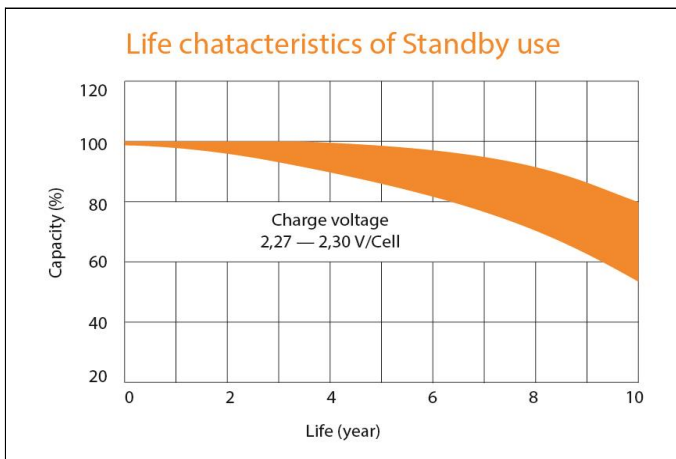
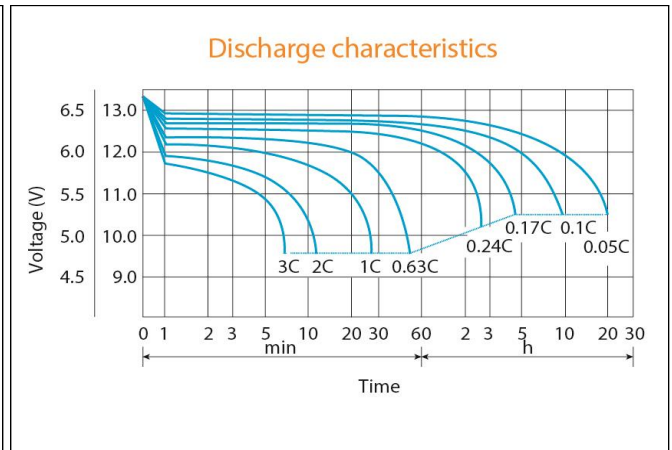
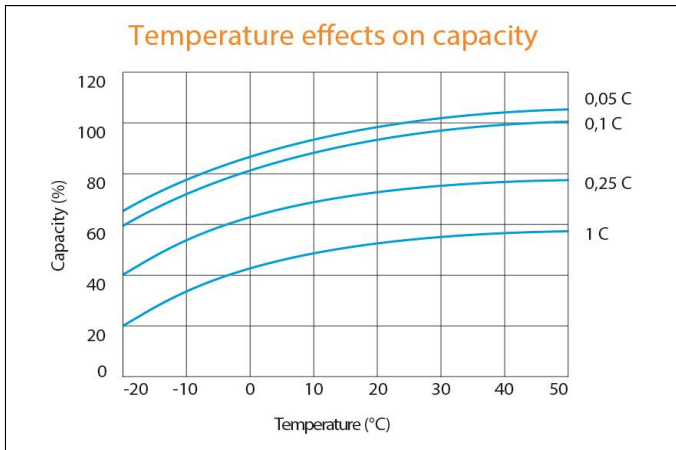


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	531	306	233	192	108	51,8	34,8	18,9	10,3
1,65	480	279	222	184	104	51,3	34,3	18,7	10,2
1,70	432	259	209	180	104	50,1	33,6	18,4	10,1
1,75	435	251	200	171	103	49,2	33,3	18,0	10,0
1,80	424	250	197	174	101	48,4	32,5	17,7	9,90

Discharge Constant Power, W/cell (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	998	591	467	368	203	101	67,7	36,8	19,5
1,65	952	549	430	348	155	99,4	67,1	36,4	19,3
1,70	851	515	397	350	154	98,2	65,7	35,8	19,0
1,75	848	501	384	332	148	96,6	64,4	35,1	18,6
1,80	775	495	393	328	148	94,7	63,3	34,5	18,3



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE