

DELTA DTX Series Lead Acid Batteries are designed for use in renewable energy-based power systems, including solar and wind energy, autonomous energy supply systems. The batteries are sealed and maintenance-free, with a service life of 10 years in a buffer mode. Manufactured by using GEL technology: during the production process (a gel solution of sulfuric acid gelled in a gel) is used as an electrolyte, which ensures high battery resistance to deep discharges (optimal when operating in a cyclic mode) and stable operation under conditions of ambient temperature changes.



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 (19,2 A; 1,75 V/cell).....192 Ah
 5 hours rate (34,6 A; 1,70 V/cell).....173 Ah
 Self-discharge.....3% capacity per month 20°C
 Internal resistance (25°C).....4,5 mΩ

Operating temperature range

Discharge..... -10÷40°C
 Charge..... -20÷60°C
 Storage..... -20÷60°C
 Maximum discharge current (25°C).....1000A (5s)
 Cycle mode (2,35÷2,4 V/cell)
 Max.charge current.....40 A
 Temperature correction factor.....30 mV/°C
 Standby mode (2,25÷2,3 V/cell)
 Temperature correction factor.....20 mV/°C

Application

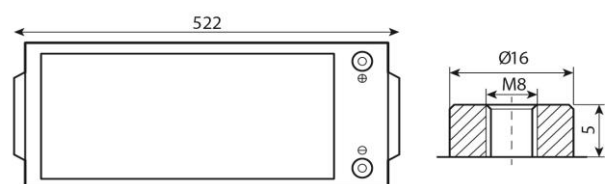
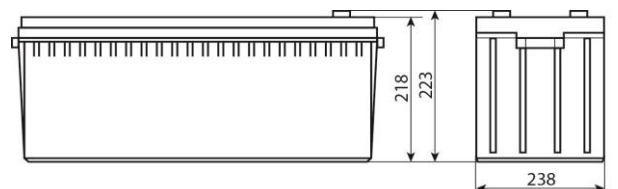
- Uninterruptable power supply
- Back up power supply
- Communication system
- Renewable energy system
- Autonomous power supply systems

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

Dimensions (±2mm)

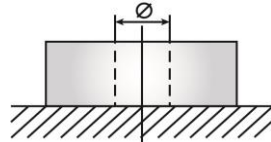
Length, mm.....522
 Width, mm.....238
 Height, mm.....218
 Height over terminals, mm.....223
 Weight (±3%), kg.....58



Layout
F



Terminal type
Insert Ø8

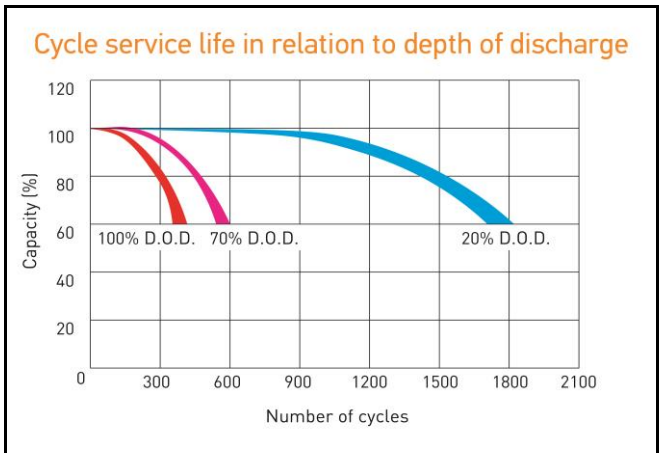
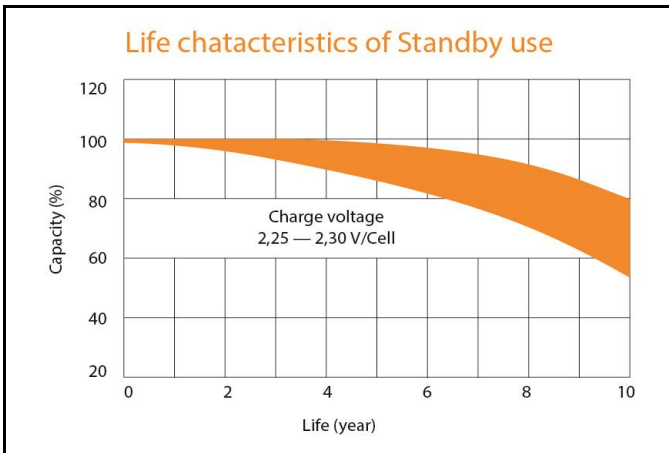
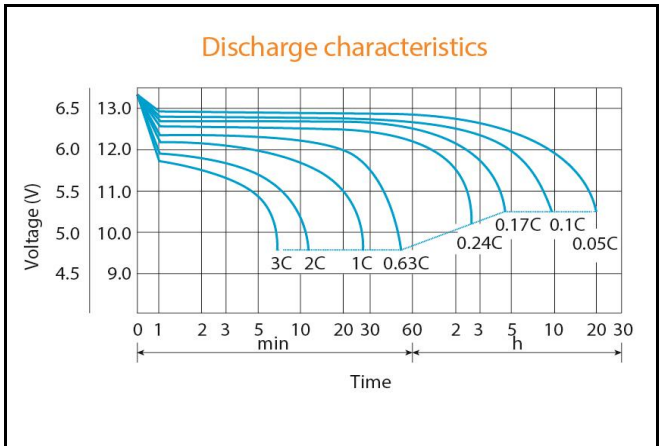
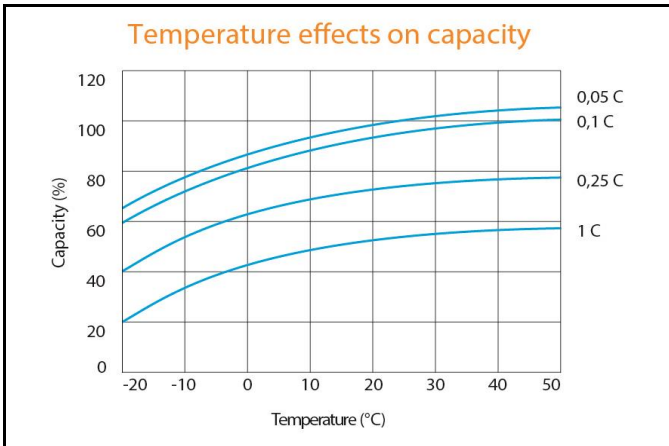


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1,60	518	386	318	200	116	50,8	35,0	19,7	10,6
1,65	503	367	311	197	116	50,6	34,8	19,5	10,4
1,70	493	354	306	195	115	50,2	34,6	19,3	10,2
1,75	452	327	292	190	113	50,0	34,2	19,2	10,0
1,80	417	298	274	182	111	48,6	33,6	19,0	9,81

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	892	685	582	380	224	101	69,6	39,3	20,4
1,65	874	664	573	376	223	101	69,4	38,9	20,2
1,70	874	646	567	373	221	100	69,2	38,5	20,0
1,75	813	602	540	364	219	99,9	68,4	38,3	19,8
1,80	757	555	510	349	215	97,2	67,1	37,9	19,6



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