

**Battery construction**

Component	Positive plate	Negative plate	Case	Cover	Valve	Terminals	Separator	Electrolyte
Material	Lead dioxide	Lead	ABS		Acid-resistant rubber	Brass	GEL	Gelled sulfuric acid solution

Benefits

- The battery case is made of flame-retardant ABS plastic.
- GEL technology.
- Long service life.
- Resistant to deep discharges.
- No acid leaks, ensuring safe operation with other equipment.
- No gas emissions; natural ventilation is sufficient.
- No need to monitor water level or refill.
- Temperature-stable performance characteristics.

Operating temperature range

Discharge.....-20 to +60 °C
 Charge.....-10 to +50 °C
 Storage.....-20 to +60 °C

Dimensions (±2 mm)

Length, mm.....483
 Width, mm.....170
 Height, mm.....240
 Weight (±3%), kg.....45.0

Charging parameters

Cyclic mode (14.1–14.4 V/bat)

Max discharge current (25°C).....1000 A
 Max charge current.....37.5 A
 Temperature compensation.....18 mV/bat

Float mode (13.6–13.8 V/bat)

Temperature compensation.....18 mV/bat

Technical specifications

Nominal voltage.....12 V
 Number of cells.....6
 Service life at 20 ± 5 °C.....10–12 years
 Rated capacity (25 °C)
 10-hour discharge (15.0 A; 10.8 V/battery)..150 Ah
 5-hour discharge (23.6 A; 10.5 V/battery)....118 Ah
 1-hour discharge (98.2 A; 9.9 V/battery)..98.2 Ah
 Self-discharge.....3% of capacity per month at 25 °C
 Internal resistance
 of fully charged battery (25 °C).....3.2 m

**Constant current discharge, A (at 25°C)**

V/bat	15 min	30 min	45 min	1 h rate	3 h rate	5 h rate	8 h rate	10 h rate	20 h rate
9,6	272	150	119	102	38.4	25.5	18.1	15.3	8.43
9,9	261	145	114	98.2	36.9	25.1	18.0	15.2	8.27
10,2	247	139	110	94.8	35.9	24.3	17.9	15.2	8.05
10,5	235	131	105	90.6	34.6	23.6	17.5	15.1	7.86
10,8	222	125	99	85.9	32.7	22.7	17.4	15.0	7.66

Constant power discharge, V/cell (at 25°C)

V/cell	15 min	30 min	45 min	1 h rate	3 h rate	5 h rate	8 h rate	10 h rate	20 h rate
1,60	465	287	219	179	73.1	49.0	35.8	30.0	15.5
1,65	450	281	217	174	72.3	48.9	35.7	29.9	15.4
1,70	435	272	213	173	70.3	48.4	35.5	29.7	15.3
1,75	421	264	208	171	69.1	47.7	35.2	29.6	15.1
1,80	402	254	201	169	66.4	46.9	34.9	29.5	15.0