

**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.....260
 Width, mm.....168
 Height, mm.....211
 Full Height, mm.....217
 Weight (±3%), kg.....23.5

Charging parameters

Cyclic mode (14.1–14.4 V/bat)

Max discharge current (25°C).....700 A (5sec)
 Max charge current.....18.7 A
 Temperature compensation.....18 mV/bat

Float mode (13.5–13.8 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 (7.5 A; 10.8 V/battery).....75 Ah
 5-hour discharge (13.0 A; 10.5 V/battery)...64.8 Ah
 1-hour discharge (46.4 A; 9.9 V/battery)..46.4 Ah
 Self-discharge.....3% of capacity per month at 25 °C
 Internal resistance
 of fully charged battery (25 °C).....4.8 mΩ

**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	130	80,1	59,4	48,9	19,6	13,6	9,3	7,63	3,82
9,9	128	77,5	56,9	46,4	19,2	13,4	9,2	7,59	3,81
10,2	122	74,9	55,5	45,5	18,8	13,2	9,1	7,57	3,80
10,5	118	72,3	53,1	43,3	18,2	13,0	9,1	7,52	3,78
10,8	110	70,0	50,9	41,2	17,2	12,8	9,0	7,51	3,77

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	227	145	111	90,0	37,4	26,5	17,7	14,4	7,30
1,65	222	142	107	88,2	37,0	26,3	17,5	14,2	7,19
1,70	218	138	105	86,3	36,4	25,8	17,3	14,1	7,18
1,75	212	135	101	84,2	35,8	25,6	17,2	14,0	7,15
1,80	207	131	97,4	81,0	35,2	25,0	17,0	13,9	7,12

Note: The above performance data are average values obtained from 3 control and training cycles and are not nominal by default.