

**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.....307
 Width, mm.....168
 Height, mm.....211
 Full Height, mm.....217
 Weight (±3%), kg.....27.5

Charging parameters

Cyclic mode (14.1–14.4 V/bat)

Max discharge current (25°C).....900 A
 Max charge current.....25.0 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 (10.0 A; 10.8 V/battery)..100 Ah
 5-hour discharge (17.2 A; 10.5 V/battery)..86.2 Ah
 1-hour discharge (61.4 A; 9.9 V/battery)..61.4 Ah
 Self-discharge.....3% of capacity per month at 25 °C
 Internal resistance
 of fully charged battery (25 °C).....4.0 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	182	106	79,2	65,1	27,5	18,7	12,5	10,3	5,48
9,9	175	102	77,4	61,4	27,2	18,0	12,3	10,2	5,28
10,2	161	94,1	71,9	60,5	26,7	17,6	12,2	10,2	5,22
10,5	151	91,1	69,9	59,5	26,4	17,2	12,0	10,1	5,06
10,8	141	89,2	68,6	56,4	24,9	16,9	11,9	10,0	4,96

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	315	196	147	122	51,7	35,1	24,2	19,8	10,0
1,65	309	185	143	116	50,4	34,7	24,0	19,7	9,9
1,70	293	180	135	112	49,9	34,3	23,8	19,5	9,8
1,75	290	174	132	109	48,2	33,9	23,1	19,0	9,6
1,80	275	168	129	102	47,6	33,5	22,6	18,5	9,4