

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.....523
 Width, mm.....239
 Height, mm.....218
 Full Height, mm.....224
 Weight (±3%), kg.....63.5

Charging parameters

Cyclic mode (14.1–14.4 V/bat)

Max discharge current (25°C).....1000 A
 Max charge current.....50 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 (20.0 A; 10.8 V/bat).....200 Ah
 5-hour discharge (35.3 A; 10.5 V/bat).....176 Ah
 1-hour discharge (124 A; 9.9 V/bat).....124 Ah
 Self-discharge.....3% of capacity per month at 25 °C
 Internal resistance
 of fully charged battery (25 °C).....2.5m



Constant current discharge, A (at 25°C)

V/bat	min	min	min	h rate	h rate	h rate	h rate	h rate	h rate
9,6	326	219	159	128	53,0	39,6	25,1	20,2	10,4
9,9	311	210	153	124	51,1	38,1	24,6	20,2	10,3
10,2	296	202	147	120	49,3	36,8	24,2	20,1	10,3
10,5	281	191	140	114	47,9	35,3	23,7	20,1	10,2
10,8	265	181	132	108	45,3	33,6	23,2	20,0	10,1

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	565	390	287	234	96,7	69,7	45,9	37,4	19,2
1,65	549	381	281	230	95,6	67,0	45,4	37,0	19,0
1,70	531	371	275	226	94,2	66,3	44,9	36,7	18,9
1,75	513	358	266	218	92,0	66,0	44,5	36,4	18,7
1,80	490	343	255	211	90,0	65,0	44,3	36,2	18,4