

**Battery construction**

Component	Positive plate	Negative plate	Case	Cover	Valve	Terminals	Separator	Electrolyte
<b>Material</b>	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.....27.0

**Charging parameters**

Cyclic mode (14.1–14.4 V/bat)

Max discharge current (25°C).....800 A (5sec)  
 Max charge current.....22.5 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 (9.0 A; 10.8 V/battery).....90 Ah  
 5-hour discharge (13.7 A; 10.5 V/battery)...68.5 Ah  
 1-hour discharge (50.4 A; 9.9 V/battery)..50.4 Ah  
 Self-discharge.....3% of capacity per month at 25 °C  
 Internal resistance  
 of fully charged battery (25 °C).....4.6 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
<b>9,6</b>	142	86,6	63,2	52,9	21,6	14,3	10,3	9,6	4,31
<b>9,9</b>	139	84,4	61,9	50,4	21,5	14,2	10,2	9,5	4,31
<b>10,2</b>	132	82,3	60,9	47,8	21,3	14,0	10,1	9,3	4,28
<b>10,5</b>	126	79,3	58,3	46,8	20,7	13,7	10,0	9,1	4,27
<b>10,8</b>	117	76,3	57,8	46,3	20,1	13,3	9,9	9,0	4,27

**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
<b>1,60</b>	266	165	125	100	42,0	29,0	19,8	16,5	8,85
<b>1,65</b>	261	164	123	97,0	41,1	28,4	19,6	16,4	8,80
<b>1,70</b>	255	156	121	96,0	40,0	28,2	19,2	16,0	8,76
<b>1,75</b>	249	152	120	95,0	39,9	28,0	19,1	15,9	8,74
<b>1,80</b>	234	149	119	94,8	38,7	27,8	19,1	15,8	8,69