

**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.....410  
 Width, mm.....176  
 Height, mm.....224  
 Weight (±3%), kg.....36.5  
 Terminal type.....M8 Stud

**Charging parameters**

Cyclic mode (14.1–14.4 V/bat)

Max discharge current (25°C).....950 A  
 Max charge current.....30.0 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 (12.0 A; 10.8 V/battery)..120 Ah  
 5-hour discharge (19.7 A; 10.5 V/battery)...98.5 Ah  
 1-hour discharge (69.8 A; 9.9 V/battery)..69.8 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
<b>9,6</b>	192	118	86,2	70,4	31,4	20,6	14,5	12,2	6,36
<b>9,9</b>	192	114	84,6	69,8	30,9	20,7	14,4	12,2	6,31
<b>10,2</b>	183	110	82,3	68,6	30,4	20,3	14,2	12,1	6,25
<b>10,5</b>	176	106	79,6	66,3	29,9	19,7	14,0	12,0	6,05
<b>10,8</b>	164	104	77,6	64,1	27,6	18,9	13,7	12,0	6,03

**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>	363	223	169	138	58,3	38,9	27,4	23,2	12,1
<b>1,65</b>	352	216	168	135	55,7	38,2	26,7	22,5	11,9
<b>1,70</b>	340	210	154	129	53,9	37,7	26,5	22,2	11,5
<b>1,75</b>	329	203	152	126	53,1	36,8	26,1	22,0	11,3
<b>1,80</b>	305	196	147	122	52,0	36,4	26,0	21,8	11,2