

**Product features**

- Maintenance free battery, no need for watering
- Special formation process
- Analytical grade electrolyte
- Spill proof / leak proof construction
- Safety valve, maximum internal pressure 17 kPa / 2.5 psi
- Container and lid made from ABS (UL 94 V-0 version on request)
- Low self-discharge
- Non dangerous good according to FAA and IATA classification
- Complies with the following standards: IEC 60896-21/22, EUROBAT



**Specification**

Nominal voltage	12 V
Nominal capacity	9.0 Ah
Design life	5 years
Operating temperature	-20°C to 50°C (-4°F to 122°F)
Grid alloy	Lead-calcium-tin
Electrode design	Flat grid, pasted
Separator	Absorbent glass mat (AGM)
Active material	High purity lead and lead dioxides
Container and lid	ABS UL 94 HB (V-0 version on request)
Charge voltage	Float charging: 2.27 – 2.30 Vpc @25-15°C Cyclic use: see Instruction for use Maximum ripple: 0.05 C (A)
Electrolyte	Purified high grade sulphuric acid
Safety valve	EPDM Copolymer, opening pressure 10.5 to 14 kPa (1.5 to 2 psi), closing pressure ca. 7 kPa (1 psi)
Terminal	Fast on 6.3 mm



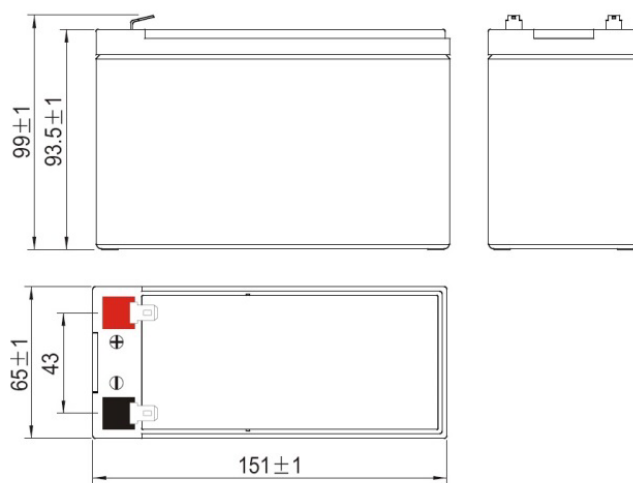
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

## Technical data

Nominal voltage		12 V	
Nominal capacity		9.0 Ah (C <sub>20h</sub> )	
Dimension (±1 mm / ±0.04 inch)	Length	151 mm	5.94 inches
	Width	65 mm	2.56 inches
	Height	94/99 mm	3.68/3.89 in.
	Weight	2.5 kg	5.40 lbs.

## Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	8.5 Ah
	10 h	7.9 Ah
	5 h	6.9 Ah
	1 h	4.7 Ah
	15 min	3.3 Ah
Internal resistance		18.0 mΩ
Impedance		-
Temperature correction factors	40°C (104°F)	102%
	20°C (68°F)	100%
	0°C (32°F)	85%
	-15°C (5°F)	65%
Self-discharge at 20°C (68°F) - Capacity after	1 month storage	98%
	3 months storage	94%
	6 months storage	86%
Short circuit current	A @ 20°C (68°F)	255
Terminal	Fast on 6.3 mm	Fast on 6.3 mm
	Option	-
Charging voltage	Cyclic	See operating instruction
	Float charging	2.27-2.30 Vpc 25-15°C (77-59°F)



## Constant current discharge – A @ 20°C (68°F)

Uf Vpc	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
1.85	19.5	14.2	12.1	10.3	7.5	5.5	4.4	2.6	1.9	1.3	0.92	0.76	0.42
1.80	23.4	16.6	13.5	11.2	8.1	5.8	4.7	2.7	2.0	1.4	0.95	0.79	0.43
1.75	26.1	18.1	14.3	11.8	8.4	6.1	4.8	2.8	2.1	1.4	0.97	0.81	0.43
1.70	28.5	19.3	15.1	12.3	8.7	6.2	4.9	2.9	2.1	1.4	0.99	0.82	0.44
1.65	31.7	20.9	16.2	13.0	9.2	6.5	5.1	3.0	2.2	1.5	1.01	0.83	0.45

## Constant power discharge – Watt per cell @20°C (68°F)

Uf Vpc	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
1.85	36.7	27.0	23.3	19.9	14.6	10.8	8.6	5.1	3.9	2.7	1.85	1.53	0.84
1.80	43.6	31.3	25.7	21.5	15.6	11.4	9.1	5.4	4.0	2.8	1.91	1.59	0.86
1.75	48.4	34.0	27.1	22.5	16.2	11.8	9.5	5.5	4.1	2.8	1.93	1.61	0.87
1.70	51.9	35.8	28.3	23.3	16.7	12.0	9.6	5.6	4.2	2.8	1.95	1.62	0.87
1.65	56.3	37.8	29.7	24.2	17.2	12.4	9.8	5.7	4.2	2.9	1.97	1.63	0.88

## Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	5.1	5.8	6.6	7.3	7.6	8.3
1.80	5.4	6.0	6.9	7.6	7.9	8.5
1.75	5.6	6.2	7.0	7.7	8.0	8.6
1.70	5.7	6.3	7.2	7.9	8.1	8.7
1.65	5.9	6.5	7.4	8.0	8.3	8.9

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