

**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
- VdS certified



**Specification**

Nominal voltage	12 V
Nominal capacity	2.3 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 4.8 mm



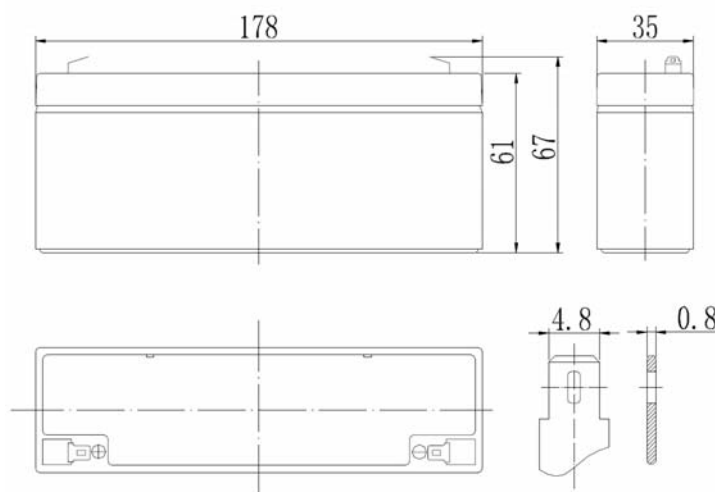
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

## Technical data

Nominal voltage		12 V	
Nominal capacity		2.3 Ah (C <sub>20h</sub> )	
Dimension (±1 mm / ±0.04 inch)	Length	178 mm	7.01 inches
	Width	35 mm	1.38 inches
	Height	61/67 mm	2.40/2.63 in.
	Weight	0.9 kg	1.98 lbs.

## Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	2.3 Ah
	10 h	2.1 Ah
	5 h	1.9 Ah
	1 h	1.3 Ah
	15 min	0.9 Ah
Internal resistance		60 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)	-
Terminal	Standard	Fast on 4.8 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	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
1.80	3.76	2.18	1.36	0.77	0.56	0.38	0.25	0.21	0.11
1.75	3.97	2.26	1.41	0.79	0.58	0.39	0.25	0.21	0.12
1.70	4.11	2.32	1.44	0.81	0.58	0.39	0.25	0.22	0.12
1.65	4.27	2.39	1.47	0.81	0.58	0.40	0.26	0.22	0.12

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

Uf Vpc	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
1.80	7.1	4.2	2.6	1.5	1.1	0.8	0.5	0.4	0.2
1.75	7.5	4.3	2.7	1.5	1.1	0.8	0.5	0.4	0.2
1.70	7.8	4.4	2.8	1.6	1.1	0.8	0.5	0.4	0.2
1.65	8.1	4.6	2.8	1.6	1.2	0.8	0.5	0.4	0.2

## Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.80	1.5	1.7	1.9	2.0	2.1	2.3
1.75	1.6	1.7	2.0	2.0	2.1	2.3
1.70	1.6	1.7	2.0	2.0	2.2	2.3
1.65	1.6	1.7	2.0	2.1	2.2	2.3

