

**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	3.4 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



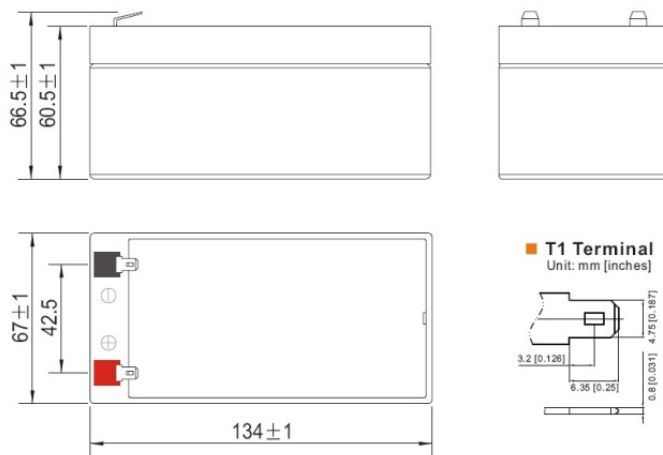
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

## Technical data

Nominal voltage		12 V	
Nominal capacity		3.4 Ah (C <sub>20h</sub> )	
Dimension (±1 mm / ±0.04 inch)	Length	134 mm	5.28 inches
	Width	67 mm	2.64 inches
	Height	61/66 mm	2.38/2.59 in.
	Weight	1.4 kg	2.98 lbs.

## Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	3.4 Ah
	10 h	3.1 Ah
	5 h	2.7 Ah
	1 h	1.8 Ah
	15 min	1.1 Ah
Internal resistance		45.0 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)	102
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	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	6.5	4.6	3.8	3.3	2.6	2.0	1.6	1.0	0.8	0.5	0.37	0.30	0.17
1.80	8.0	5.4	4.4	3.7	2.9	2.2	1.8	1.1	0.8	0.6	0.38	0.32	0.17
1.75	9.5	6.1	4.8	4.0	3.1	2.3	1.9	1.1	0.8	0.6	0.39	0.32	0.17
1.70	10.8	6.8	5.2	4.3	3.2	2.4	1.9	1.2	0.9	0.6	0.40	0.33	0.18
1.65	11.9	7.3	5.5	4.5	3.4	2.5	2.0	1.2	0.9	0.6	0.40	0.33	0.18

## 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	12.3	8.7	7.2	6.3	5.1	3.9	3.2	2.0	1.5	1.1	0.74	0.62	0.34
1.80	15.0	10.2	8.3	7.1	5.6	4.3	3.5	2.1	1.6	1.1	0.76	0.63	0.34
1.75	17.5	11.5	9.1	7.7	5.9	4.5	3.6	2.2	1.6	1.1	0.78	0.64	0.34
1.70	19.6	12.5	9.7	8.2	6.2	4.7	3.8	2.3	1.7	1.1	0.78	0.65	0.35
1.65	21.4	13.3	10.2	8.5	6.4	4.8	3.9	2.3	1.7	1.2	0.79	0.65	0.35

## Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	2.0	2.2	2.6	2.9	3.0	3.3
1.80	2.1	2.4	2.7	3.0	3.1	3.4
1.75	2.2	2.4	2.8	3.1	3.2	3.4
1.70	2.3	2.5	2.9	3.1	3.2	3.5
1.65	2.3	2.6	2.9	3.2	3.3	3.5

