

**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	5.0 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 4.8 mm, as option Fast on 6.3 mm



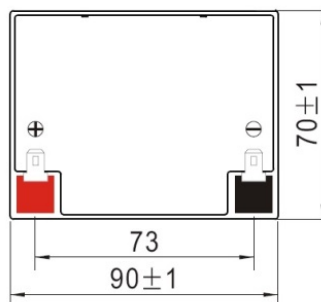
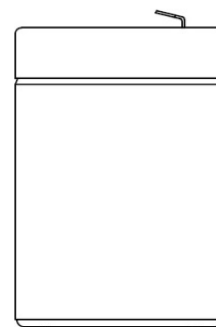
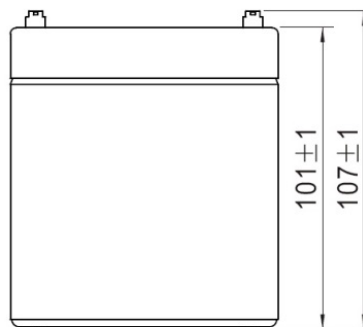
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

### Technical data

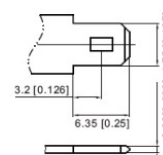
Nominal voltage		12 V	
Nominal capacity		5.0 Ah (C <sub>20h</sub> )	
Dimension (±1 mm / ±0.04 inch)	Length	90 mm	3.54 inches
	Width	70 mm	2.76 inches
	Height	101/107 mm	3.98/4.21 in.
	Weight	1.7 kg	3.84 lbs.

### Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	5.0 Ah
	10 h	4.6 Ah
	5 h	4.0 Ah
	1 h	2.6 Ah
Internal resistance	15 min	1.6 Ah
	Impedance	40.0 mΩ
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)	150
Terminal	Standard	Fast on 4.8 mm
	Option	Fast on 6.3 mm
Charging voltage	Cyclic	See operating instruction
	Float charging	2.27-2.30 Vpc 25-15°C (77-59°F)



**T1 Terminal**  
Unit: mm [inches]



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

Uf	5	10	15	20	30	45	60	2	3	5	8	10	20
Vpc	min	min	min	min	min	min	min	h	h	h	h	h	h
1.85	9.6	6.7	5.5	4.8	3.8	3.0	2.4	1.5	1.1	0.8	0.54	0.45	0.25
1.80	11.8	8.0	6.4	5.4	4.3	3.2	2.6	1.6	1.2	0.8	0.56	0.47	0.25
1.75	14.0	9.0	7.1	5.9	4.5	3.4	2.7	1.6	1.2	0.8	0.58	0.47	0.25
1.70	15.9	10.0	7.6	6.3	4.8	3.6	2.9	1.7	1.3	0.9	0.58	0.48	0.26
1.65	17.5	10.7	8.1	6.7	5.0	3.7	3.0	1.8	1.3	0.9	0.59	0.49	0.26

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

Uf	5	10	15	20	30	45	60	2	3	5	8	10	20
Vpc	min	min	min	min	min	min	min	h	h	h	h	h	h
1.85	18.1	12.7	10.6	9.3	7.5	5.8	4.8	2.9	2.2	1.6	1.09	0.91	0.50
1.80	22.0	15.1	12.2	10.4	8.2	6.3	5.1	3.1	2.3	1.6	1.12	0.93	0.50
1.75	25.7	16.9	13.3	11.2	8.7	6.6	5.3	3.2	2.4	1.7	1.14	0.94	0.50
1.70	28.9	18.4	14.3	12.0	9.1	6.8	5.5	3.3	2.5	1.7	1.15	0.95	0.51
1.65	31.4	19.5	14.9	12.5	9.4	7.1	5.7	3.4	2.5	1.7	1.17	0.96	0.51

### Capacity – Ah @20°C (68°F)

Uf	2	3	5	8	10	20
Vpc	h	h	h	h	h	h
1.85	2.9	3.3	3.9	4.3	4.4	4.9
1.80	3.1	3.5	4.0	4.4	4.6	5.0
1.75	3.2	3.6	4.2	4.6	4.7	5.0
1.70	3.4	3.7	4.3	4.6	4.8	5.1
1.65	3.5	3.8	4.4	4.7	4.8	5.2

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