Datasheet

CT 7-12

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	7.0 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

Pb

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

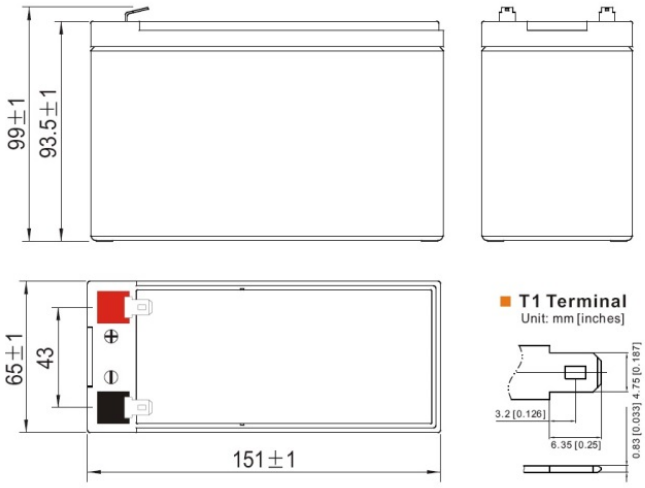
CT 7-12

Technical data

Nominal voltage		12 V	
Nominal capacity		7.0 Ah (C_{20h})	
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	2.4 kg	5.18 lbs.

Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h 10 h 5 h 1 h 15 min Internal resistance Impedance	7.0 Ah 6.5 Ah 5.7 Ah 3.8 Ah 2.7 Ah 23.0 mΩ -
Temperature correction factors	40°C (104°F) 20°C (68°F) 0°C (32°F) -15°C (5°F)	102% 100% 85% 65%
Self-discharge at 20°C (68°F) - Capacity after	1 month storage 3 months storage 6 months storage	98% 94% 86%
Short circuit current	A @ 20°C (68°F)	210
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)



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	16.0	11.7	10.0	8.5	6.2	4.5	3.6	2.1	1.6	1.1	0.76	0.63	0.34
1.80	19.2	13.7	11.1	9.2	6.7	4.8	3.8	2.2	1.7	1.1	0.78	0.65	0.35
1.75	21.5	14.9	11.8	9.7	6.9	5.0	4.0	2.3	1.7	1.2	0.80	0.66	0.36
1.70	23.4	15.9	12.4	10.2	7.2	5.1	4.0	2.4	1.8	1.2	0.81	0.67	0.36
1.65	26.1	17.2	13.4	10.7	7.5	5.4	4.2	2.4	1.8	1.2	0.83	0.69	0.37

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	30.3	22.3	19.2	16.4	12.0	8.9	7.1	4.2	3.2	2.2	1.52	1.26	0.69
1.80	35.9	25.8	21.2	17.7	12.9	9.4	7.5	4.4	3.3	2.3	1.57	1.31	0.70
1.75	39.8	28.0	22.3	18.6	13.3	9.7	7.8	4.6	3.4	2.3	1.59	1.33	0.72
1.70	42.8	29.5	23.3	19.2	13.7	9.9	7.9	4.6	3.4	2.3	1.61	1.33	0.72
1.65	46.4	31.1	24.5	19.9	14.2	10.2	8.1	4.7	3.5	2.4	1.63	1.34	0.72

Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	4.2	4.8	5.5	6.0	6.2	6.8
1.80	4.4	4.9	5.7	6.2	6.5	7.0
1.75	4.6	5.1	5.8	6.3	6.6	7.1
1.70	4.7	5.2	5.9	6.4	6.7	7.2
1.65	4.8	5.3	6.1	6.6	6.8	7.3

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