Datasheet

CT 12-12

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	12.0 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

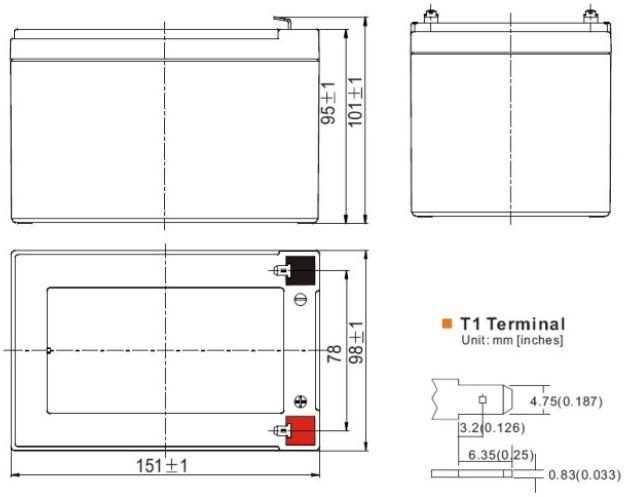
CT 12-12

Technical data

Nominal voltage		12 V	
Nominal capacity		12.0 Ah (C_{20h})	
Dimension (±1 mm / ±0.04 inch)	Length	151 mm	5.94 inches
	Width	98 mm	3.86 inches
	Height	95/101 mm	3.74/3.97 in.
	Weight	3.8 kg	8.38 lbs.

Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h 10 h 5 h 1 h 15 min Internal resistance Impedance	12.0 Ah 11.2 Ah 9.7 Ah 6.6 Ah 4.7 Ah 18.0 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)	360
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	27.5	20.0	17.1	14.5	10.6	7.7	6.2	3.7	2.7	1.9	1.30	1.07	0.59
1.80	33.0	23.4	19.0	15.8	11.4	8.2	6.6	3.8	2.9	2.0	1.34	1.12	0.60
1.75	36.9	25.6	20.2	16.6	11.9	8.6	6.8	4.0	2.9	2.0	1.36	1.14	0.61
1.70	40.2	27.3	21.3	17.4	12.3	8.8	7.0	4.0	3.0	2.0	1.39	1.15	0.62
1.65	44.8	29.6	22.9	18.4	12.9	9.2	7.2	4.2	3.1	2.1	1.42	1.17	0.63

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	51.9	38.2	32.9	28.1	20.6	15.2	12.2	7.3	5.4	3.8	2.61	2.16	1.19
1.80	61.6	44.2	36.3	30.3	22.1	16.1	12.9	7.6	5.7	3.9	2.69	2.25	1.21
1.75	68.3	48.0	38.3	31.8	22.9	16.7	13.4	7.8	5.8	4.0	2.72	2.28	1.23
1.70	73.3	50.5	40.0	33.0	23.5	17.0	13.5	7.9	5.9	4.0	2.76	2.29	1.23
1.65	79.5	53.3	42.0	34.1	24.3	17.5	13.8	8.0	6.0	4.1	2.79	2.30	1.24

Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	7.3	8.2	9.4	10.4	10.7	11.7
1.80	7.6	8.5	9.7	10.7	11.2	12.0
1.75	7.9	8.7	9.9	10.8	11.4	12.2
1.70	8.1	8.9	10.2	11.1	11.5	12.3
1.65	8.3	9.2	10.4	11.3	11.7	12.6

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