

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	2.1 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



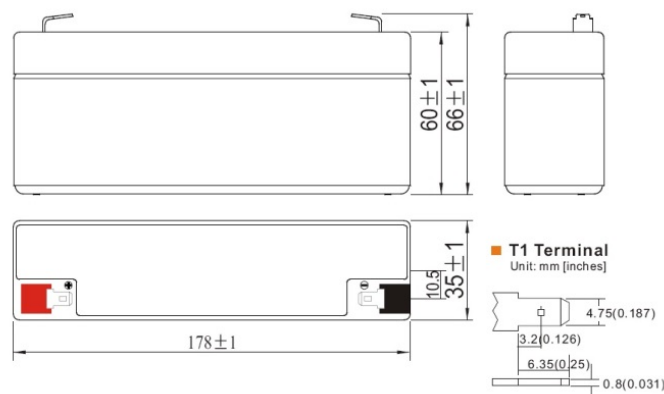
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

Technical data

Nominal voltage		12 V	
Nominal capacity		2.1 Ah (C _{20h})	
Dimension (±1 mm / ±0.04 inch)	Length	178 mm	7.01 inches
	Width	35 mm	1.38 inches
	Height	60/66 mm	2.36/2.60 in.
	Weight	1.0 kg	2.12 lbs.

Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	2.1 Ah
	10 h	1.9 Ah
	5 h	1.7 Ah
	1 h	1.1 Ah
	15 min	0.8 Ah
Internal resistance		90.0 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)	60
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	4.8	3.5	3.0	2.5	1.9	1.4	1.1	0.6	0.5	0.3	0.23	0.19	0.10
1.80	5.8	4.1	3.3	2.8	2.0	1.4	1.1	0.7	0.5	0.3	0.23	0.20	0.11
1.75	6.5	4.5	3.5	2.9	2.1	1.5	1.2	0.7	0.5	0.3	0.24	0.20	0.11
1.70	7.0	4.8	3.7	3.0	2.1	1.5	1.2	0.7	0.5	0.4	0.24	0.20	0.11
1.65	7.8	5.2	4.0	3.2	2.3	1.6	1.3	0.7	0.5	0.4	0.25	0.20	0.11

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	9.1	6.7	5.8	4.9	3.6	2.7	2.1	1.3	1.0	0.7	0.46	0.38	0.21
1.80	10.8	7.7	6.4	5.3	3.9	2.8	2.3	1.3	1.0	0.7	0.47	0.39	0.21
1.75	11.9	8.4	6.7	5.6	4.0	2.9	2.3	1.4	1.0	0.7	0.48	0.40	0.22
1.70	12.8	8.9	7.0	5.8	4.1	3.0	2.4	1.4	1.0	0.7	0.48	0.40	0.22
1.65	13.9	9.3	7.4	6.0	4.3	3.1	2.4	1.4	1.0	0.7	0.49	0.40	0.22

Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	1.2	1.4	1.6	1.8	1.8	2.0
1.80	1.3	1.4	1.7	1.8	1.9	2.1
1.75	1.3	1.5	1.7	1.9	1.9	2.1
1.70	1.4	1.5	1.7	1.9	2.0	2.1
1.65	1.4	1.6	1.8	1.9	2.0	2.2

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