

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 G103052



Specification

Nominal voltage	12 V
Nominal capacity	24.0 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	M5



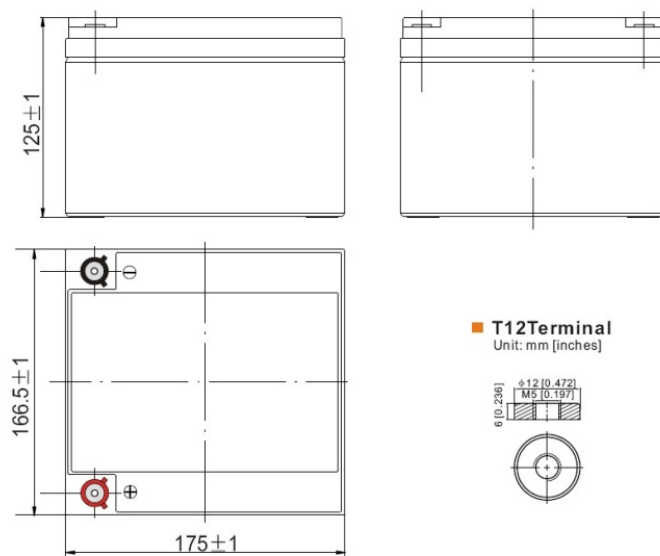
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

Technical data

Nominal voltage		12 V	
Nominal capacity		24.0 Ah (C _{20h})	
Dimension (±1 mm / ±0.04 inch)	Length	166 mm	6.54 inches
	Width	175 mm	6.89 inches
	Height	125 mm	4.92 inches
	Weight	5.3 kg	11.7 lbs.

Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	24.0 Ah
	10 h	22.4 Ah
	5 h	19.5 Ah
	1 h	13.1 Ah
	15 min	9.5 Ah
Internal resistance		14.0 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)	720
Terminal	Standard	M5
	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	55.0	40.1	34.2	29.0	21.2	15.5	12.3	7.3	5.5	3.8	2.59	2.15	1.18
1.80	66.0	46.8	38.0	31.5	22.8	16.4	13.1	7.7	5.7	3.9	2.69	2.24	1.20
1.75	73.7	51.1	40.3	33.3	23.7	17.1	13.6	7.9	5.9	4.0	2.73	2.27	1.22
1.70	80.4	54.6	42.6	34.8	24.6	17.6	13.9	8.1	6.0	4.1	2.78	2.31	1.24
1.65	89.6	59.1	45.8	36.8	25.8	18.4	14.4	8.3	6.2	4.2	2.84	2.35	1.26

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	103	76.3	65.7	56.1	41.2	30.4	24.3	14.5	10.9	7.5	5.22	4.33	2.38
1.80	123	88.5	72.6	60.6	44.2	32.1	25.8	15.2	11.3	7.8	5.38	4.50	2.41
1.75	136	96.0	76.6	63.6	45.8	33.3	26.7	15.6	11.5	7.9	5.45	4.55	2.45
1.70	146	101	80.0	65.9	47.1	33.9	27.0	15.8	11.7	8.0	5.51	4.57	2.46
1.65	158	106	84.0	68.2	48.7	35.0	27.7	16.1	11.9	8.2	5.57	4.61	2.48

Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	14.6	16.4	18.8	20.7	21.5	23.6
1.80	15.3	17.1	19.5	21.5	22.4	24.0
1.75	15.8	17.5	19.9	21.8	22.7	24.4
1.70	16.2	17.9	20.3	22.2	23.1	24.8
1.65	16.6	18.4	20.9	22.7	23.5	25.2

