

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 G114018



Specification

Nominal voltage	12 V
Nominal capacity	18.0 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



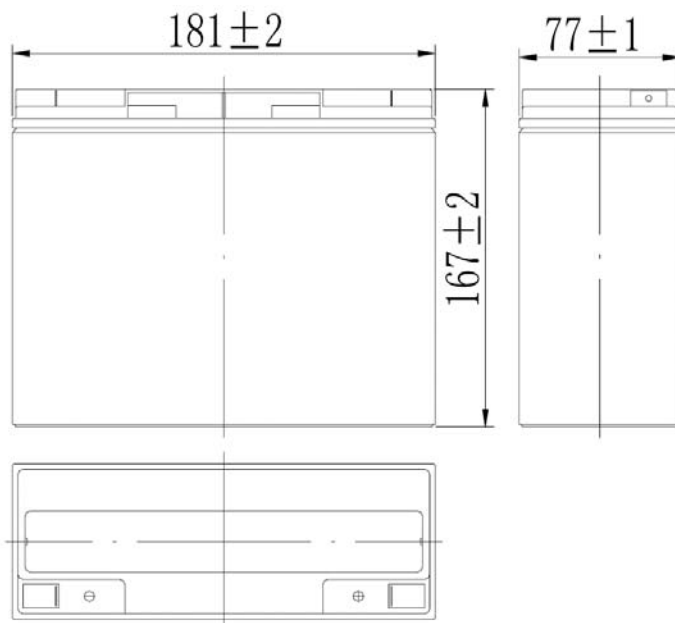
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

Technical data

Nominal voltage		12 V	
Nominal capacity		18.0 Ah (C _{20h})	
Dimension (±2 mm / ±0.08 inch)	Length	181 mm	7.13 inches
	Width	77 mm	3.03 inches
	Height	167 mm	6.57 inches
	Weight	5.3 kg	11.7 lbs.

Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	17.6 Ah
	10 h	16.4 Ah
	5 h	14.9 Ah
	1 h	10.7 Ah
	15 min	7.3 Ah
Internal resistance		16.0 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)	-
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	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
1.80	36.3	29.4	17.0	10.7	6.05	4.37	2.97	1.92	1.64	0.88
1.75	38.4	31.1	17.7	11.0	6.21	4.50	3.06	1.98	1.67	0.90
1.70	40.2	32.1	18.1	11.2	6.30	4.53	3.08	1.99	1.68	0.91
1.65	41.9	33.4	18.7	11.5	6.36	4.56	3.10	2.01	1.69	0.91

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

Uf Vpc	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
1.80	68.2	55.8	32.5	20.7	11.8	8.7	5.9	3.8	3.3	1.8
1.75	72.3	59.0	33.8	21.2	12.1	8.9	6.1	4.0	3.4	1.8
1.70	75.5	61.0	34.7	21.7	12.3	9.0	6.1	4.0	3.4	1.8
1.65	78.8	63.5	35.7	22.2	12.4	9.0	6.2	4.0	3.4	1.8

Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.80	12.1	13.1	14.9	15.4	16.4	17.6
1.75	12.4	13.5	15.3	15.8	16.7	18.0
1.70	12.6	13.6	15.4	15.9	16.8	18.2
1.65	12.7	13.7	15.5	16.1	16.9	18.2

