

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 G103053



Specification

Nominal voltage	12 V
Nominal capacity	38.0 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	M6



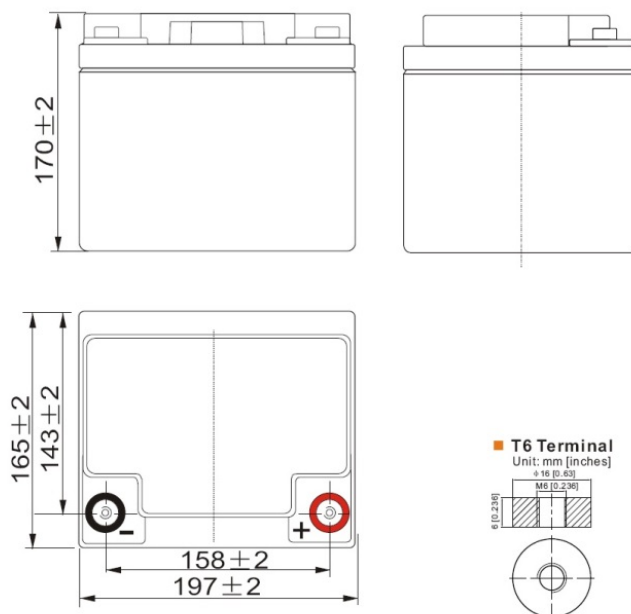
CTM GmbH keenly encourages environmental awareness. Please follow all existing guidelines for recycling/disposal of lead

Technical data

Nominal voltage		12 V	
Nominal capacity		38.0 Ah (C _{20h})	
Dimension (±2 mm / ±0.08 inch)	Length	197 mm	7.76 inches
	Width	165 mm	6.50 inches
	Height	170 mm	6.69 inches
	Weight	13.2 kg	29.10 lbs.

Characteristics

Capacity 20°C (68°F) to 1.8 Vpc	20 h	40.6 Ah
	10 h	38.0 Ah
	5 h	32.3 Ah
	1 h	19.2 Ah
	15 min	10.5 Ah
Internal resistance		10.0 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)	950
Terminal	Standard	M6
	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	57.0	44.5	37.4	33.2	27.5	21.2	18.2	11.8	8.8	6.1	4.28	3.68	1.96
1.80	66.3	50.9	42.0	36.7	29.9	22.9	19.2	12.6	9.5	6.5	4.51	3.80	2.03
1.75	75.7	57.8	47.3	40.5	32.5	25.0	20.9	13.1	9.9	6.6	4.66	3.90	2.08
1.70	85.7	65.3	52.5	44.7	35.5	26.9	22.1	13.9	10.4	7.0	4.85	4.05	2.14
1.65	92.0	70.1	56.2	47.6	37.4	28.5	22.9	14.4	10.8	7.2	5.02	4.17	2.20

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	107	84.7	71.9	64.1	53.6	41.6	35.8	23.3	17.6	12.2	8.62	7.42	3.97
1.80	123	96.2	80.2	70.5	57.9	44.7	37.7	25.0	18.8	12.9	9.03	7.63	4.09
1.75	140	108	89.9	77.5	62.6	48.6	40.9	25.9	19.5	13.1	9.30	7.81	4.18
1.70	156	120	98.5	84.6	67.8	52.0	43.0	27.0	20.4	13.8	9.61	8.04	4.25
1.65	163	126	103	88.3	70.4	54.4	43.9	27.7	21.0	14.1	9.84	8.18	4.34

Capacity – Ah @20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	23.6	26.5	30.4	34.2	36.8	39.2
1.80	25.2	28.5	32.3	36.0	38.0	40.6
1.75	26.2	29.6	33.0	37.2	39.0	41.6
1.70	27.8	31.2	34.9	38.8	40.5	42.8
1.65	28.8	32.4	36.0	40.1	41.7	44.0

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