

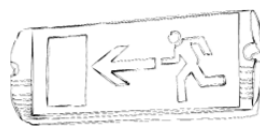
Product features

- Maintenance free battery, no need for watering
- Specific environmentally friendly formation process
- Spill & leak proof construction
- Analytical grade electrolyte
- Safety valves
- Container and lid made from ABS (UL 94 V-0 version available on request)
- Low self-discharge
- Non dangerous good according to FAA and IATA classification
- Complies with the following standards: IEC 60896-21/22, EUROBAT
- Tested by Det Norske Veritas / Germanischer Lloyd



Specification

Nominal voltage	12 V
Nominal capacity	80 Ah
Design life	12 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 dioxide
Container and lid	ABS UL 94 HB (V-0 version on request)
Charge voltage	Float charging: 2.275 Vpc @ 20°C (68°F) Cyclic use: see instruction for use
	Maximum ripple: 0.05 C (A)
Electrolyte	Purified high grade sulfuric acid
Safety valve	EPDM rubber, opening pressure 10.5 to 14 kPa (1.5 to 2 psi), closing pressure ca. 7 kPa (1 psi)
Terminal	Insert M6



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

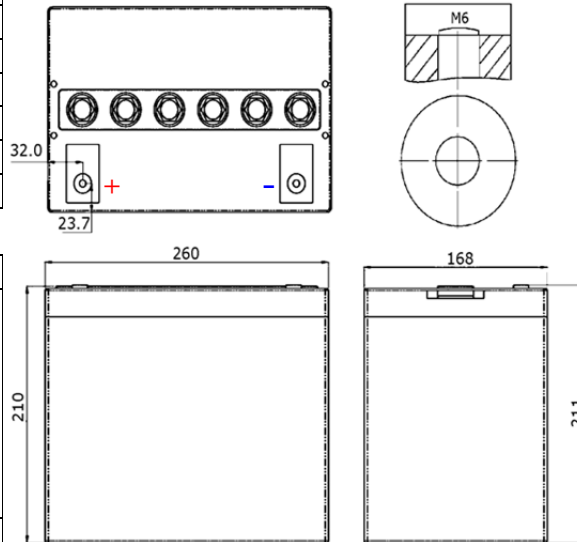
Physical Data

Dimension (±2 mm/± 0.08 inch)

Length	260 mm	10.24 inches
Width	168 mm	6.61 inches
Height	210 mm	8.27 inches
Height incl. terminal	211 mm	8.31 inches
Weight	26.0 kg	57.46 lbs.
Terminal	Standard	Insert M6
	Option	automotive

Electrical Data

Nominal voltage	12 V	
Capacity 20°C (68°F) to 1.7 Vpc	20 h	93.3 Ah
	10 h	90.5 Ah
	5 h	82.0 Ah
	1 h	61.3 Ah
	15 min	38.6 Ah
Internal resistance Impedance		4.0 mΩ
		1150 S
Temperature correction factors (C20)	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)	2400
Charging voltage	Float charging	2.27-2.30 Vpc 25-15°C (77-59°F)
	cyclic	See operating instruction



Constant current discharge – A @ 20°C (68°F)

Uf Vpc	5 min	10 min	15 min	20 min	30 min	60 min	2 h	5 h	8 h	10 h	20 h
1.85	233	161	133	114	89.4	52.8	29.7	14.1	9.5	7.7	4.0
1.80	249	172	142	122	95.5	56.4	31.8	15.1	10.2	8.3	4.2
1.75	265	183	151	129	102	60.0	33.8	16.0	10.8	8.8	4.5
1.70	271	187	155	132	104	61.3	34.5	16.4	11.1	9.0	4.6
1.65	274	190	156	134	105	62.1	35.0	-	-	-	-
1.60	277	191	158	135	106	62.7	35.3	-	-	-	-

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

Uf Vpc	5 min	10 min	15 min	20 min	30 min	60 min	2 h	5 h	8 h	10 h	20 h
1.85	441	316	258	219	168	102	58.3	27.6	18.5	15.1	7.9
1.80	471	337	276	234	180	109	62.3	29.5	19.7	16.1	8.5
1.75	501	359	293	249	191	116	66.3	31.4	21.0	17.1	9.0
1.70	512	367	300	255	195	119	67.7	32.1	21.5	17.5	9.2
1.65	519	371	303	258	198	120	68.6	-	-	-	-
1.60	524	375	306	260	200	121	69.2	-	-	-	-

Capacity – Ah @ 20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	59.5	64.2	70.6	76.1	77.9	80.3
1.80	63.5	68.6	75.4	81.3	83.2	85.8
1.75	67.6	73.0	80.2	86.5	88.5	91.3
1.70	69.1	74.6	82.0	88.4	90.5	93.3
1.65	70.0	75.5	-	-	-	-
1.60	70.6	76.3	-	-	-	-

