

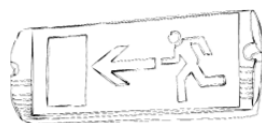
Product features

- 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	200 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 M8



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

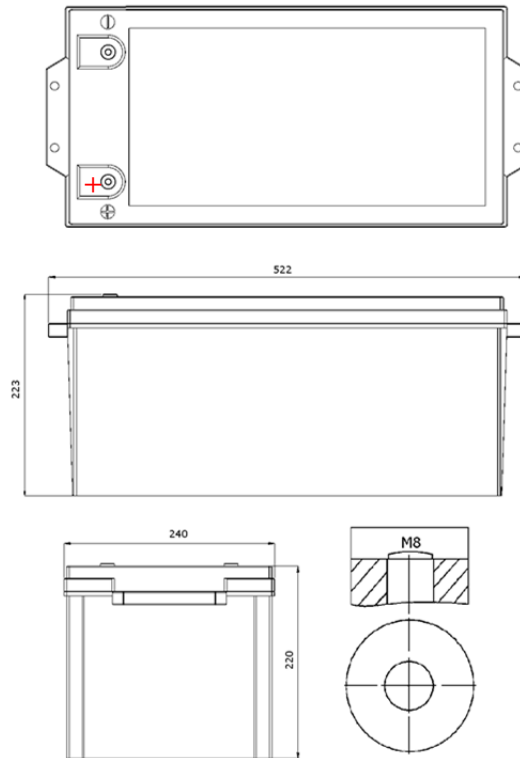
Physical Data

Dimension (±2 mm/± 0.08 inch)

Length	522 mm	20.55 inches
Width	240 mm	9.45 inches
Height	220 mm	8.66 inches
Height incl. terminal	223 mm	8.78 inches
Weight	61.7 kg	136.36 lbs.
Terminal	Standard	Insert M8
	Option	automotive

Electrical Data

Nominal voltage		12 V
Capacity 20°C (68°F) to 1.7 Vpc	20 h	240 Ah
	10 h	225 Ah
	5 h	201 Ah
	1 h	140 Ah
	15 min	81.1 Ah
	Internal resistance	2.5 mΩ
	Impedance	2050 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)	5400
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	422	333	279	243	194	121	72.2	34.9	23.5	19.4	10.4
1.80	451	355	298	259	207	129	77.1	37.3	25.2	20.8	11.1
1.75	480	378	317	276	220	137	82.0	39.6	26.8	22.1	11.8
1.70	491	386	324	282	225	140	83.8	40.5	27.3	22.6	12.0
1.65	497	391	329	285	228	142	84.9	-	-	-	-
1.60	502	395	332	288	230	143	85.7	-	-	-	-

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	880	591	485	430	370	246	144	63.5	43.2	35.7	19.5
1.80	940	632	518	459	395	263	154	67.8	46.1	38.1	20.8
1.75	1000	672	551	488	420	280	164	72.1	49.0	40.6	22.1
1.70	1022	687	563	499	429	286	168	73.7	50.1	41.5	22.6
1.65	1035	696	570	505	435	290	170	-	-	-	-
1.60	1045	702	576	510	439	293	171	-	-	-	-

Capacity – Ah @ 20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	144	158	173	188	194	207
1.80	154	169	185	201	208	221
1.75	164	180	197	214	221	235
1.70	168	184	201	219	226	241
1.65	170	186	-	-	-	-
1.60	171	188	-	-	-	-

