

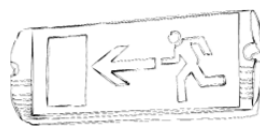
Product features

- 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	70 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.

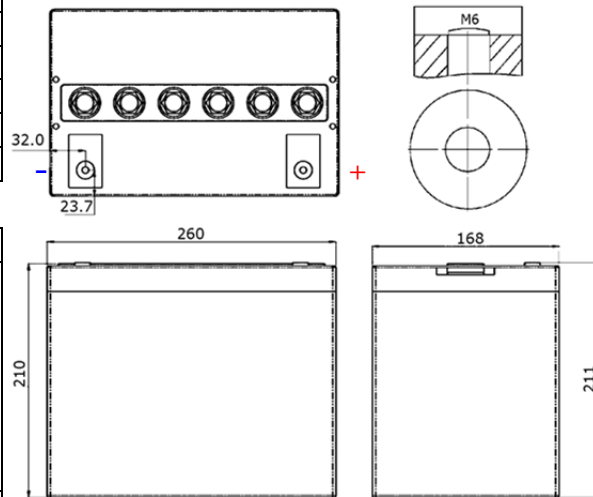
Physical Data

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	24.7 kg	54.59 lbs.
Terminal	Standard	Insert M6
	Option	automotive

Electrical Data

Nominal voltage	12 V	
Capacity 20°C (68°F) to 1.7 Vpc	20 h	90.3 Ah
	10 h	83.6 Ah
	5 h	75.0 Ah
	1 h	52.6 Ah
	15 min	35.2 Ah
Internal resistance	Impedance	4.7 mΩ
		1000 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)	2100
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	195	153	121	100	75.0	45.3	26.6	12.9	8.7	7.2	3.8
1.80	209	163	129	107	80.1	48.4	28.4	13.8	9.3	7.6	4.1
1.75	222	173	138	113	85.2	51.5	30.2	14.7	9.9	8.1	4.4
1.70	227	177	141	116	87.1	52.6	30.9	15.0	10.2	8.3	4.5
1.65	230	179	143	117	88.2	53.3	31.3	-	-	-	-
1.60	232	181	144	119	89.0	53.8	31.6	-	-	-	-

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	395	262	216	184	143	87.8	51.4	25.0	17.1	14.2	7.5
1.80	422	280	231	196	153	93.8	54.9	26.7	18.3	15.1	8.0
1.75	449	298	246	209	163	100	58.4	28.4	19.5	16.1	8.5
1.70	459	305	251	213	166	102	59.7	29.1	19.9	16.5	8.7
1.65	465	309	254	216	168	103	60.4	-	-	-	-
1.60	469	312	257	218	170	104	61.0	-	-	-	-

Capacity – Ah @ 20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	53.2	57.9	64.5	70.1	72.0	77.8
1.80	56.9	61.8	68.9	74.9	76.9	83.1
1.75	60.5	65.8	73.3	79.7	81.8	88.4
1.70	61.8	67.2	75.0	81.5	83.6	90.3
1.65	62.6	68.1	-	-	-	-
1.60	63.2	68.7	-	-	-	-

