

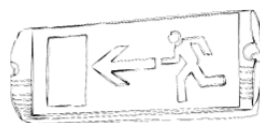
Product features

- 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	120 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
Electrolyte	Maximum ripple: 0.05 C (A) 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.

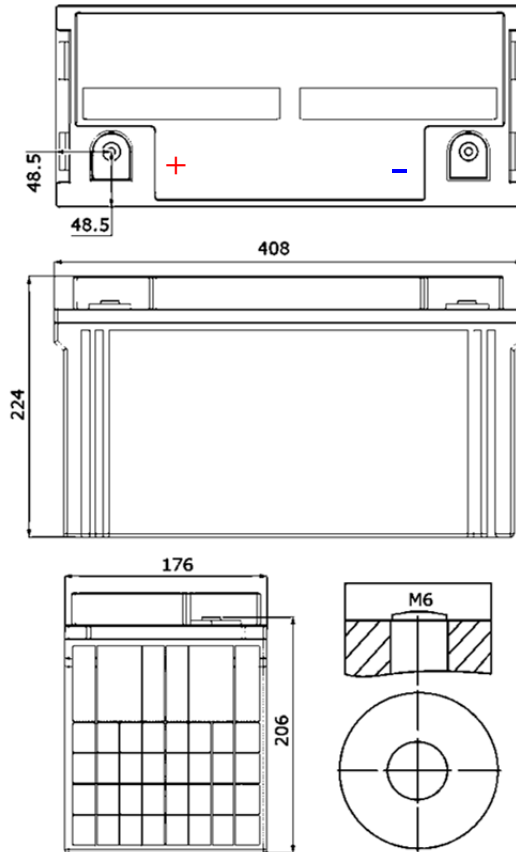
Physical Data

Dimension (± 2 mm/ ± 0.08 inch)

Height	408 mm	16.06 inches
Height incl. terminal	176 mm	6.93 inches
Length	224 mm	8.82 inches
Width	-	-
Weight	37.4 kg	82.65 lbs.
Terminal	Standard	Insert M6
	Option	automotive

Electrical Data

Nominal voltage	12 V	
Capacity 20°C (68°F) to 1.7 Vpc	20 h	138 Ah
	10 h	129 Ah
	5 h	118 Ah
	1 h	83.9 Ah
	15 min	55.0 Ah
Internal resistance Impedance		3.0 mΩ
		1250 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)	3300
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	3 h	5 h	8 h	10 h	20 h
1.85	328	228	189	159	121	72.2	30.8	20.3	13.6	11.1	5.9
1.80	350	244	202	170	129	77.1	32.9	21.7	14.5	11.9	6.3
1.75	372	260	215	181	138	82.1	35.0	23.1	15.4	12.7	6.7
1.70	381	265	220	185	141	83.9	35.7	23.6	15.8	12.9	6.9
1.65	385	269	223	187	142	84.9	36.2	-	-	-	-
1.60	389	271	225	189	144	85.8	36.5	-	-	-	-

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

Uf Vpc	5 min	10 min	15 min	20 min	30 min	60 min	3 h	5 h	8 h	10 h	20 h
1.85	701	452	354	290	220	137	58.1	38.4	25.0	21.0	11.2
1.80	749	483	379	309	235	146	62.0	41.0	27.0	27.0	12.0
1.75	797	514	403	329	250	156	66.0	43.6	29.0	29.0	12.7
1.70	814	525	412	336	256	159	67.4	44.6	29.0	29.0	13.0
1.65	825	532	417	341	259	161	68.3	-	-	-	-
1.60	833	537	421	344	261	163	68.9	-	-	-	-

Capacity – Ah @ 20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	83,9	92,3	102	109	111	119
1.80	89,6	98,6	109	116	119	127
1.75	95,3	105	116	123	127	135
1.70	97,4	107	118	126	129	138
1.65	98,7	109	-	-	-	-
1.60	100	110	-	-	-	-

