

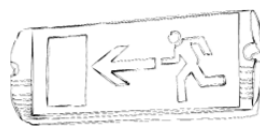
Product features

- 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	150 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.

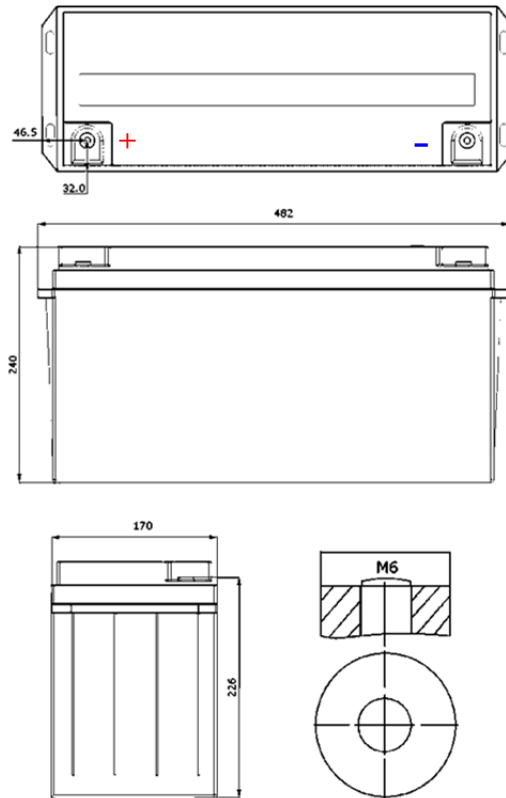
Physical Data

Dimension (±2 mm/± 0.08 inch)

Length	482 mm	18.98 inches
Width	170 mm	6.69 inches
Height	240 mm	9.45 inches
Height incl. terminal	-	-
Weight	45.3 kg	100.11 lbs.
Terminal	Standard	Insert M6
	Option	automotive

Electrical Data

Nominal voltage		12 V
Capacity 20°C (68°F) to 1.7 Vpc	20 h	163 Ah
	10 h	154 Ah
	5 h	146 Ah
	1 h	109 Ah
	15 min	61.4 Ah
Internal resistance		2.8 mΩ
	Impedance	1300 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)	4200
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	351	249	211	188	153	94.5	54.5	25.2	16.4	13.3	7.0
1.80	375	266	226	201	163	101	58.2	26.9	17.5	14.2	7.5
1.75	399	283	240	213	173	107	61.9	28.6	18.6	15.1	8.0
1.70	408	289	245	218	177	110	63.3	29.2	19.0	15.4	8.1
1.65	413	293	249	221	179	111	64.1	-	-	-	-
1.60	417	295	251	223	181	112	64.7	-	-	-	-

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	864	549	434	370	299	190	113	50.1	32.7	26.6	13.9
1.80	923	586	464	395	320	203	120	53.6	34.9	28.4	14.9
1.75	982	623	493	420	340	216	128	57.0	37.1	30.2	15.8
1.70	1003	637	504	429	347	221	131	58.2	38.0	30.9	16.2
1.65	1016	645	511	435	352	224	133	-	-	-	-
1.60	1026	651	516	439	355	226	134	-	-	-	-

Capacity – Ah @ 20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	109	117	126	131	133	141
1.80	116	125	134	140	142	150
1.75	124	133	143	149	151	160
1.70	127	136	146	152	154	164
1.65	128	138	-	-	-	-
1.60	129	139	-	-	-	-

