Datasheet

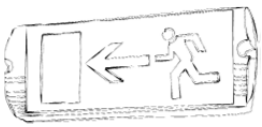
CTL 100-12

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	100 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	**A**bsorbent **G**lass **M**at (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



Pb

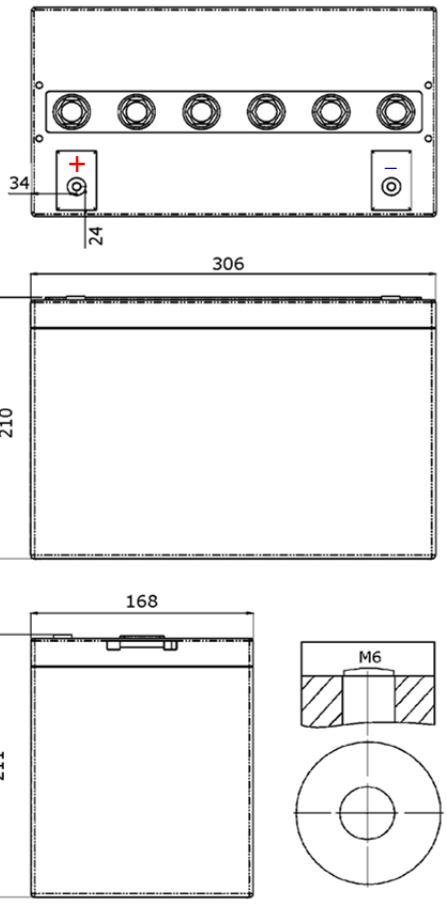
CTM GmbH encourages environmental awareness. Please observe all existing guidelines for recycling/disposal of lead.

Energy

We power the future.

CTL 100-12

Physical Data	Dimension (±2 mm/± 0.08 inch)	
Length	306 mm	12.05 inches
Width	168 mm	6.61 inches
Height	210 mm	8.27 inches
Height incl. terminal	211 mm	8.31 inches
Weight	29.7 kg	65.64 lbs.
Terminal	Standard	Insert M6
	Option	automotive



Electrical Data

Nominal voltage		12 V
Capacity 20°C (68°F) to 1.7 Vpc	20 h 10 h 5 h 1 h 15 min Internal resistance Impedance	115 Ah 109 Ah 100 Ah 72.6 Ah 48.4 Ah 3.4 mΩ 1300 S
Temperature correction factors (C20)	40°C (104°F) 20°C (68°F) 0°C (32°F) -15°C (5°F)	102% 100% 85% 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)	2900
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	312	209	167	141	107	62.5	35.9	17.3	11.6	9.4	4.9
1.80	333	223	178	150	114	66.7	38.4	18.5	12.4	10.1	5.3
1.75	355	238	189	160	121	71.0	40.8	19.7	13.2	10.7	5.6
1.70	362	243	194	163	124	72.6	41.7	20.1	13.4	11.0	5.7
1.65	367	246	196	165	126	73.5	42.2	-	-	-	-
1.60	371	248	198	167	127	74.2	42.6	-	-	-	-

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	540	389	315	262	201	123	70.4	31.4	21.1	17.4	9.4
1.80	576	415	336	279	214	132	75.2	33.6	22.5	18.5	10.1
1.75	613	442	358	297	228	140	80.0	35.7	24.0	19.7	10.7
1.70	627	451	365	304	233	143	81.8	36.5	24.5	20.2	10.9
1.65	635	457	370	308	236	145	82.8	-	-	-	-
1.60	641	461	374	311	238	146	83.6	-	-	-	-

Capacity – Ah @ 20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	71.8	78.3	86.5	92.6	94.5	100
1.80	76.7	83.7	92.4	98.9	101	107
1.75	81.6	89.0	98.3	105	107	113
1.70	83.4	91.0	100	108	110	116
1.65	84.5	92.1	-	-	-	-
1.60	85.3	93.0	-	-	-	-

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