CTL 120-12

Datasheet

Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Special formation process
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - V0 on request
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 896- 2, DIN 43534, BS 6290 Pt4, Eurobat.

Specifications

Nominal Voltage	12 Volts
Nominal Capacity	138Ah (C20)
Design Life	12 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycling See Haze Cyclic charging profile Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Analytical grade purity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Terminal	Insert 16mm Dia M6 thread. Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value for all types is 5-7 Nm
Cables	Connectors, cables, terminal covers on request.

CTM GmbH keenly encourages environmental awareness; PLEASE follow guidlines for recycling/disposal of lead

www.**ctm-berlin**.de
info@ctm-berlin.de

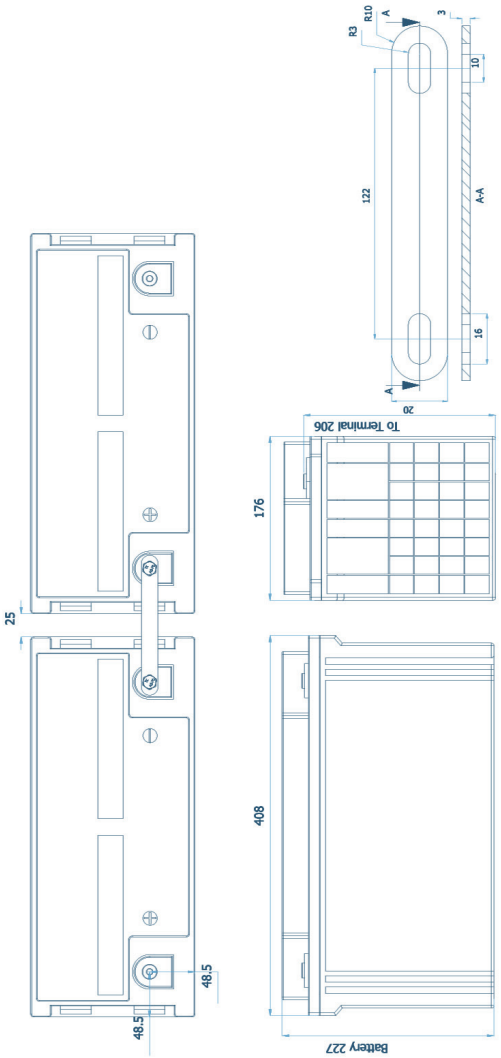
We power the future.

Specifications

	Nominal Voltage Nominal Capacity	12V 138 Ah	
Dimensions	Total Height (Inc. terminals) Length Width Weight	224 mm n/a mm 408 mm 176 mm 37,4 Kg	8,82 inches n/a inches 16,06 inches 6,93 inches 82,65 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1,7 volts	20 hour rate 10 hour rate 5 hour rate 1 hour rate 15 min rate Internal Resistance Impedance	138.2 Ah 129.4 Ah 118.1 Ah 83.9 Ah 55.0 Ah 3 mOhms 1250 S
Capacity corrections for Temperature Variations (C20)	40 °C (104 F) 20 °C (68 F) 0 °C (32 F) -15 °C (5 F)	102% 100% 85% 65%
Self-Discharge 20 °C (68 °F)	Capacity after 1 months storage Capacity after 3 months storage Capacity after 6 months storage	98% 94% 86%
Short Circuit Current 20 °C (68 °F)	3300	
Terminal	Standard Optional	14mm Insert M6 thread Cu/Lead Flag - J Type - Auto
Charging (Constant Voltage)	Cyclic Float	2,35 - 2,40 VPC (20-25°C) 2,27 - 2,30 VPC (15-25 °C)



Constant Power Discharge - Watts per Cell @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	12hr	20hr
1.85	865	486	354	287	248	220	200	184	170	137	101	80.1	58.1	45.9	38.4	32.7	28.5	25.3	20.8	17.7	11.2
1.80	924	519	379	306	265	235	214	196	182	146	108	85.5	62.0	49.0	41.0	34.9	30.5	27.0	22.2	18.9	12.0
1.75	982	552	403	326	282	250	228	209	193	156	115	91.0	66.0	52.2	43.6	37.2	32.4	28.8	23.6	20.1	12.7
1.70	1004	565	412	333	288	256	233	213	198	159	118	93.0	67.4	53.3	44.6	38.0	33.1	29.4	24.1	20.5	13.0
1.67	1013	570	415	336	291	258	235	215	199	161	119	93.8	68.0	53.8	-	-	-	-	-	-	-
1.65	1017	572	417	337	292	259	236	216	200	161	119	94.2	68.3	54.0	-	-	-	-	-	-	-
1.60	1027	577	421	340	295	261	238	218	202	163	120	95.1	68.9	54.5	-	-	-	-	-	-	-

Constant Amps Discharge - Amps @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	12hr	20hr
1.85	328	228	189	159	137	121	109	98.8	90.5	72.2	52.6	41.9	30.8	24.6	20.3	17.5	15.3	13.6	11.1	9.47	5.95
1.80	350	244	202	170	147	129	116	106	96.7	77.1	56.1	44.8	32.9	26.3	21.7	18.7	16.3	14.5	11.9	10.1	6.35
1.75	372	260	215	181	156	138	124	112	103	82.1	59.7	47.7	35.0	28.0	23.1	19.9	17.4	15.4	12.7	10.8	6.76
1.70	381	265	220	185	159	141	127	115	105	83.9	61.0	48.7	35.7	28.6	23.6	20.3	17.8	15.8	12.9	11.0	6.91
1.67	384	268	222	186	161	142	128	116	106	84.6	61.6	49.1	36.1	28.8	-	-	-	-	-	-	-
1.65	385	269	223	187	161	142	128	116	106	84.9	61.8	49.3	36.2	28.9	-	-	-	-	-	-	-
1.60	389	271	225	189	163	144	129	117	107	85.8	62.4	49.8	36.5	29.2	-	-	-	-	-	-	-

Ampere Hour @ 20-25 °C

End V per Cell	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	12hr	20hr
1.85	83.9	92.3	97.7	102	105	107	109	111	114	119
1.80	89.6	98.6	104	109	112	114	116	119	121	127
1.75	95.3	105	111	116	119	122	123	127	129	135
1.70	97.4	107	113	118	122	124	126	129	132	138
1.67	98.3	108	114	-	-	-	-	-	-	-
1.65	98.7	109	115	-	-	-	-	-	-	-
1.60	100	110	116	-	-	-	-	-	-	-