

**Datasheet**

**Innovative Features**

- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- 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	12Ah (C20 @ 20 °C)
Design Life	10 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Microporous polymer
Active material	Very high purity lead
Case and cover	ABS (V0 on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycling 2.35 @25 °C Max. 2.4 VPC Max ripple 0.05C (A)
Electrolyte	Gelled 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	Epoxy sealed by extended mechanical paths



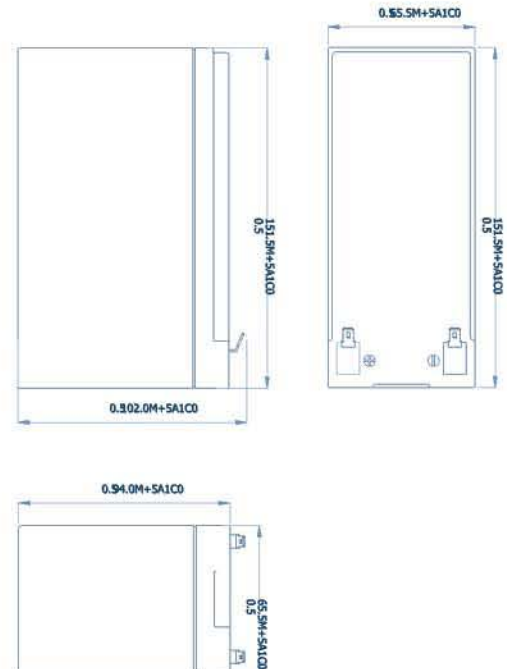
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidelines for recycling/disposal of lead

### Specifications

	Nominal Voltage	12V	
	Nominal Capacity	12Ah	
Dimensions	Total Height (Inc. terminals)	96 mm (101) mm	3.78 inches (3.98) inches
	Length	150 mm	5.91 inches
	Width	97 mm	3.82 inches
	Weight	4 Kg	8.84 lbs

### Characteristics

Capacity 20 °C (68 °F) To 1,7 volts	20 hour rate	13.1 Ah
	10 hour rate	11.2 Ah
	5 hour rate	9.8 Ah
	1 hour rate	7.3 Ah
	15 min rate	4.8 Ah
	Internal Resistance Impedance	20 mOhms
Capacity corrections for Temperature Variations (C20)	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
	-15 °C (5 °F)	65%
Self-Discharge 20 °C (68 °F)	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
	Capacity after 6 months storage	86%
Short Circuit Current 20 °C (68 °F)	500	
Terminal	Standard	Faston T1
	Optional	Faston T2
Charging (Constant Voltage)	Cyclic	2.35 - 2.40 VPC (20-25 °C)
	Float	2.27 - 2.30 VPC (15-25 °C)



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

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr
1.85	46.5	35.0	27.9	23.7	20.5	18.1	16.2	14.7	13.7	11.3	8.52	6.86	4.86	3.79
1.80	53.7	41.4	33.3	28.4	24.7	21.9	19.6	17.9	16.6	13.8	10.4	8.42	5.96	4.63
1.75	57.3	43.0	34.3	29.1	25.2	22.2	19.9	18.2	16.8	13.9	10.4	8.42	5.96	4.63
1.70	60.9	44.6	35.2	29.8	25.7	22.6	20.2	18.4	17.0	13.9	10.5	8.42	5.96	4.63
1.65	62.7	45.4	35.6	30.0	25.7	22.6	20.2	18.4	17.0	13.9	10.5	-	-	-
1.60	66.4	47.1	36.4	30.4	26.1	22.8	20.2	18.4	17.0	13.9	10.5	-	-	-

### Constant Amps Discharge - Amps @ 20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	25.0	18.7	14.9	12.6	10.9	9.56	8.52	7.75	7.16	5.88	4.41	3.54	2.49	1.93	1.60	1.09	0.91	0.79	0.55
1.80	29.3	22.5	18.0	15.3	13.2	11.7	10.4	9.49	8.77	7.26	5.44	4.37	3.07	2.37	1.95	1.31	1.09	0.94	0.62
1.75	31.6	23.6	18.7	15.8	13.6	11.9	10.6	9.66	8.91	7.30	5.47	4.38	3.08	2.38	1.96	1.33	1.11	0.96	0.64
1.70	33.9	24.7	19.4	16.3	14.0	12.2	10.8	9.83	9.04	7.34	5.49	4.38	3.08	2.39	1.97	1.34	1.12	0.97	0.66
1.65	35.1	25.2	19.6	16.4	14.0	12.2	10.9	9.85	9.06	7.35	5.49	-	-	-	-	-	-	-	-
1.60	37.3	26.2	20.1	16.7	14.2	12.4	10.9	9.89	9.10	7.36	5.50	-	-	-	-	-	-	-	-

### Ampere Hour @ 20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	7.08	7.48	7.73	7.98	8.69	9.12	9.51	10.9
1.80	8.74	9.21	9.50	9.77	10.5	10.9	11.3	12.4
1.75	8.75	9.23	9.52	9.81	10.6	11.1	11.5	12.8
1.70	8.77	9.24	9.54	9.85	10.7	11.2	11.7	13.1