



# CT 7,5-12HR

## Datasheet

### Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- Battery Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - VO on request
- Low self discharge
- FAA and IATA approved as non-hazardous



### Specifications

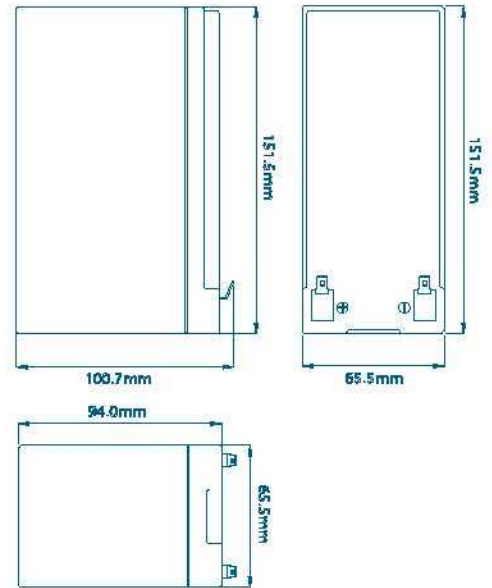
Nominal Voltage	12 Volts
Nominal Capacity	8Ah (C20 @ 20 °C)
Design Life	5 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycling 2.35 @25 °C Max. 2.4 VPC Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Battery grade purity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Terminal	Faston type. Epoxy sealed by extended mechanical paths



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

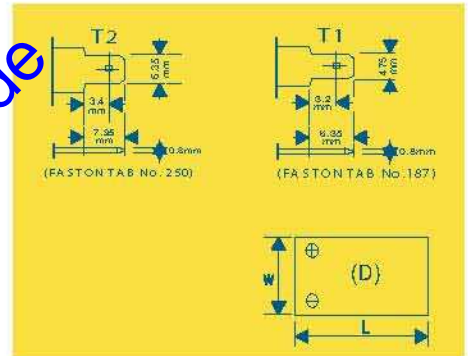
### Specifications

		Nominal Voltage	12V	
		Nominal Capacity	7,5 Ah	
Dimensions	Total Height	94 mm	3.70 inches	
	(Inc. terminals)	99 mm	3.90 inches	
	Length	151 mm	5.94 inches	
	Width	65 mm	2.56 inches	
	Weight	2.50 Kg	5.25 lbs	
	Box Quantity	8		



### Characteristics

Capacity 20 °C (68 °F) To 1,7 volts	20 hour rate	8.7 Ah
	10 hour rate	8.0 Ah
	5 hour rate	7.5 Ah
	1 hour rate	6.4 Ah
	15 min rate	4.7 Ah
	Internal Resistance	23 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)	300A	
Terminal	Standard	Faston T1 Faston T2
	Optional Layout Ref.	
Charging (Constant Voltage)	Cyclic	2.35 - 2.40 V/C (20-25 °C)
	Fbat	2.27 - 2.33 V/C (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	53.6	40.9	31.8	25.8	22.3	19.5	17.2	15.5	14.1	11.3	7.99	6.22	4.36	3.35
1.80	55.3	42.1	32.8	26.6	23.0	20.1	17.8	16.0	14.6	11.7	8.23	6.41	4.50	3.45
1.75	56.4	43.0	33.5	27.2	23.5	20.5	18.1	16.3	14.9	11.9	8.40	6.55	4.59	3.53
1.70	59.4	44.5	33.9	27.6	23.7	20.7	18.4	16.5	15.1	12.1	8.53	6.64	4.63	3.56
1.65	60.6	45.3	34.5	28.0	24.1	21.0	18.6	16.7	15.2	12.2	8.63	6.71	4.66	3.59
1.60	61.5	46.0	35.0	28.4	24.5	21.3	18.9	17.0	15.5	12.4	8.76	6.81	4.73	3.64

### 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	26.5	22.4	17.4	15.1	12.0	10.5	9.20	8.24	7.49	5.96	4.18	3.24	2.26	1.72	1.40	0.91	0.75	0.63	0.41
1.80	28.6	23.0	17.8	15.5	12.3	10.7	9.43	8.45	7.68	6.11	4.29	3.32	2.31	1.77	1.44	0.94	0.77	0.65	0.42
1.75	31.1	23.6	18.3	15.8	12.7	11.0	9.68	8.67	7.88	6.27	4.40	3.41	2.37	1.81	1.48	0.96	0.79	0.67	0.43
1.70	33.0	24.6	18.6	16.1	12.9	11.2	9.88	8.85	8.06	6.38	4.47	3.46	2.40	1.84	1.49	0.97	0.80	0.68	0.44
1.65	33.9	25.2	19.0	16.4	13.1	11.4	10.0	8.95	8.14	6.46	4.54	3.51	2.42	1.85	-	-	-	-	-
1.60	34.0	25.7	19.4	16.8	13.4	11.6	10.2	9.13	8.30	6.59	4.63	3.58	2.47	1.89	-	-	-	-	-

### Ampere Hour @ 20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	6.47	6.77	6.90	7.02	7.32	7.47	7.60	8.10
1.80	6.64	6.94	7.08	7.20	7.51	7.69	7.84	8.39
1.75	6.81	7.12	7.26	7.38	7.70	7.89	8.04	8.61
1.70	6.92	7.20	7.34	7.47	7.79	7.98	8.13	8.74
1.65	7.02	7.25	7.41	-	-	-	-	-
1.60	7.16	7.40	7.56	-	-	-	-	-