



CTV 100-12

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	100Ah (C20 @ 20 °C)
Design Life	12 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



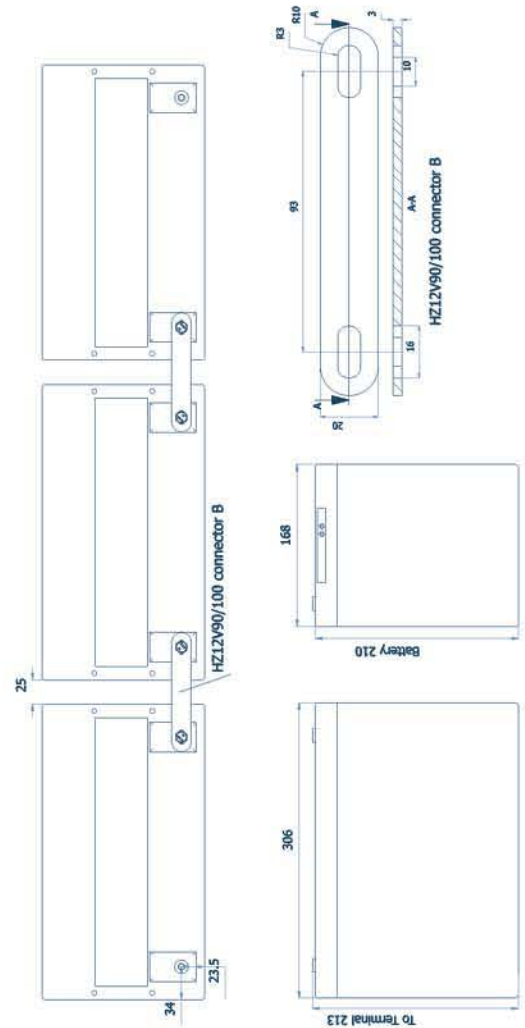
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidelines for recycling/disposal of lead

Specifications

	Nominal Voltage	12V	
	Nominal Capacity	100Ah	
Dimensions	Total Height (Inc. terminals)	208 mm	8.19 inches
		- mm	n/a inches
	Length	305 mm	12.01 inches
	Width	168 mm	6.61 inches
	Weight	28.4 Kg	62.76 lbs

Characteristics

Capacity 20 °C (68 °F) To 1,7 volts	20 hour rate	89.9 Ah
	10 hour rate	80.5 Ah
	5 hour rate	71.2 Ah
	1 hour rate	56.5 Ah
	15 min rate	36.6 Ah
	Internal Resistance Impedance	5 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)	2900	
Terminal	Standard	14mm Insert M6 thread
	Optional	Cu Flag
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	340	279	237	206	182	163	149	138	128	106	76.9	60.4	42.8	33.7
1.80	407	320	262	222	192	171	156	143	134	110	78.5	61.6	43.6	34.0
1.75	429	342	271	227	198	174	158	146	135	110	78.8	62.3	43.9	34.2
1.70	449	354	277	231	200	176	160	147	137	111	80.2	63.8	44.4	34.8
1.65	473	361	283	235	202	178	161	149	138	113	81.4	-	-	-
1.60	497	368	287	237	204	180	162	149	139	113	82.3	-	-	-

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	175	143	121	105	92.5	82.9	75.4	69.6	64.6	53.3	38.3	29.9	21.1	16.5	13.6	9.15	7.51	6.44	4.19
1.80	213	167	136	115	99.0	87.8	79.6	72.9	67.9	55.2	39.3	30.7	21.6	16.7	13.8	9.40	7.77	6.67	4.35
1.75	227	180	142	118	102	89.8	81.2	74.4	68.7	55.7	39.6	31.1	21.8	16.9	13.8	9.43	7.81	6.70	4.37
1.70	240	188	146	121	104	91.5	82.7	75.7	70.0	56.5	40.4	31.9	22.1	17.2	14.2	9.67	8.05	6.90	4.50
1.65	254	193	150	124	106	92.7	83.4	76.5	70.6	57.3	41.1	-	-	-	-	-	-	-	-
1.60	268	197	152	125	107	93.7	84.1	77.0	71.1	57.7	41.6	-	-	-	-	-	-	-	-

Ampere Hour @ 20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	59.9	63.2	65.9	68.1	73.2	75.1	77.3	83.8
1.80	61.4	64.7	66.9	68.8	75.2	77.7	80.0	87.1
1.75	62.3	65.3	67.5	69.1	75.5	78.1	80.4	87.3
1.70	63.9	66.3	68.8	71.2	77.4	80.5	82.8	89.9