CTV 70-12J

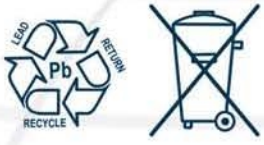
Datasheet

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	70Ah (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 (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycliing 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



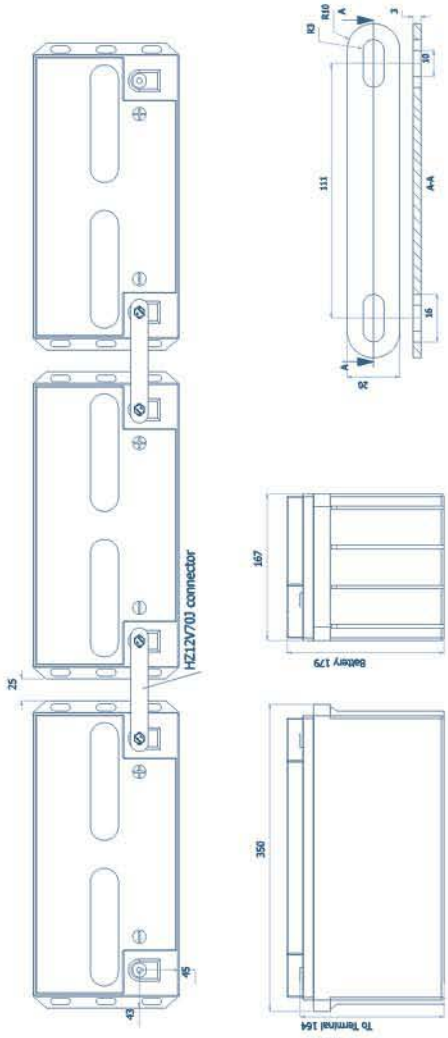
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidlines for recycling/disposal of lead

Specifications

	Nominal Voltage Nominal Capacity	12V 70Ah	
Dimensions	Total Height	179 mm	7.05 inches
	(Inc. terminals)	- mm	n/a inches
	Length	350 mm	13.78 inches
	Width	167 mm	6.57 inches
	Weight	22.1 Kg	48.84 lbs

Characteristics

Capacity 20 °C (68 °F) To 1,7 volts	20 hour rate	63.1 Ah
	10 hour rate	55.2 Ah
	5 hour rate	49.8 Ah
	1 hour rate	42.4 Ah
	15 min rate	28.6 Ah
	Internal Resistance	5 mOhms
	Impedance	S
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)	2100	
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	246	202	171	150	131	118	107	99.6	93.1	78.1	55.5	42.7	29.5	22.7
1.80	270	228	189	159	136	122	111	102	96.6	78.3	55.4	43.0	30.0	23.1
1.75	284	244	201	167	144	126	115	106	98.5	79.4	56.1	43.2	30.2	23.1
1.70	298	259	208	173	147	130	117	107	99.3	80.3	56.8	43.8	30.4	23.5
1.65	309	266	216	178	151	131	118	107	100	81.1	57.3	-	-	-
1.60	323	274	222	181	154	134	120	110	102	81.9	58.0	-	-	-

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	132	108	91.4	79.5	69.3	62.2	56.6	52.3	48.8	40.7	28.8	22.0	15.1	11.6	9.47	6.33	5.25	4.49	2.99
1.80	147	124	102	85.5	73.0	65.1	59.0	54.1	51.0	41.1	28.9	22.3	15.4	11.8	9.71	6.43	5.33	4.58	3.05
1.75	157	134	110	90.4	77.6	67.9	61.2	56.3	52.2	41.8	29.4	22.5	15.6	11.9	9.77	6.49	5.36	4.63	3.08
1.70	166	143	114	94.4	80.0	70.5	62.9	57.0	52.9	42.4	29.8	22.8	15.8	12.1	9.95	6.64	5.52	4.74	3.15
1.65	173	148	119	97.4	82.5	71.1	63.5	57.6	53.5	43.0	30.1	-	-	-	-	-	-	-	-
1.60	182	153	123	99.1	84.1	72.7	64.8	59.0	54.5	43.4	30.5	-	-	-	-	-	-	-	-

Ampere Hour @ 20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	44.0	45.3	46.4	47.3	50.7	52.5	53.8	59.8
1.80	44.6	46.3	47.3	48.6	51.4	53.3	55.0	60.9
1.75	44.9	46.8	47.6	48.8	51.9	53.6	55.5	61.6
1.70	45.7	47.3	48.4	49.8	53.1	55.2	56.9	63.1