CTV 55-12

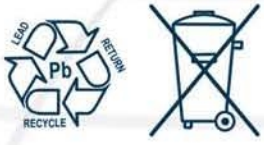
Datasheet

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	55Ah (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



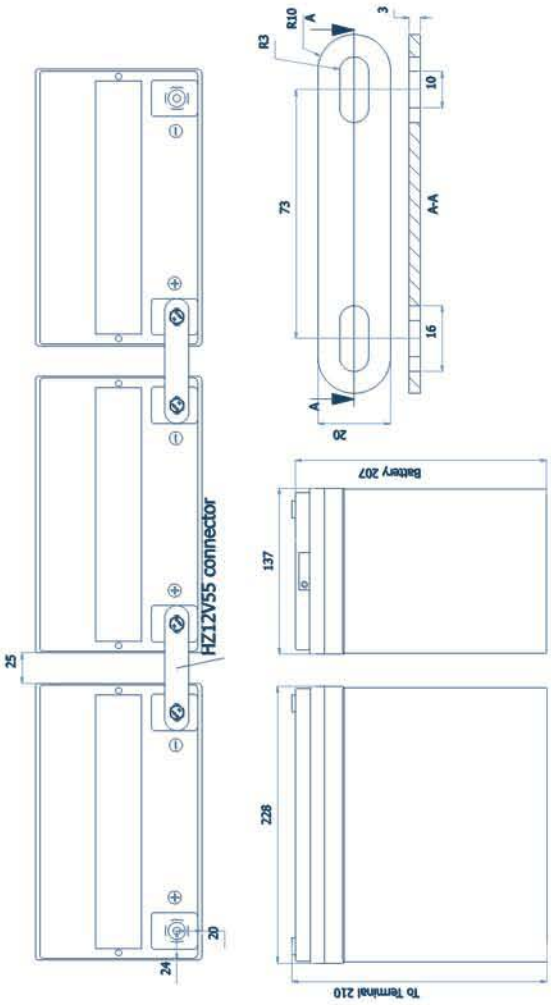
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidlines for recycling/disposal of lead

Specifications

	Nominal Voltage Nominal Capacity	12V 55 Ah	
Dimensions	Total Height	207 mm	8.15 inches
	(Inc. terminals)	- mm	n/a inches
	Length	228 mm	8.98 inches
	Width	137 mm	5.39 inches
	Weight	17.5 Kg	38.68 lbs

Characteristics

Capacity 20 °C (68 °F) To 1,7 volts	20 hour rate	51.9 Ah
	10 hour rate	44.9 Ah
	5 hour rate	40.7 Ah
	1 hour rate	32.2 Ah
	15 min rate	22.9 Ah
	Internal Resistance	6.5 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)	1700	
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	213	176	144	120	102	89.9	81.7	75.1	70.0	57.6	41.7	32.7	23.0	18.1
1.80	232	200	161	129	108	94.7	85.8	78.4	72.9	59.3	42.2	33.0	23.6	18.4
1.75	240	206	164	132	111	97.4	87.2	79.9	73.7	59.3	42.3	33.1	23.6	18.6
1.70	253	211	167	134	112	97.8	87.5	80.3	74.9	60.9	43.1	33.8	24.3	19.1
1.65	259	217	171	137	114	99.2	88.4	81.1	75.4	61.1	43.7	-	-	-
1.60	270	222	174	139	116	101	90.1	82.0	76.2	61.6	44.1	-	-	-

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	114	93.9	77.0	63.7	54.0	47.5	43.1	39.5	36.7	30.0	21.6	16.9	11.8	9.20	7.59	5.12	4.21	3.60	2.42
1.80	127	108	86.9	69.2	58.1	50.5	45.6	41.5	38.5	31.1	22.0	17.1	12.1	9.45	7.82	5.26	4.35	3.72	2.50
1.75	133	113	89.5	71.6	60.0	52.3	46.5	42.5	39.1	31.3	22.1	17.2	12.2	9.58	7.90	5.31	4.38	3.75	2.52
1.70	141	117	91.7	73.2	60.7	52.9	47.0	43.0	39.9	32.2	22.6	17.6	12.6	9.86	8.13	5.42	4.49	3.86	2.60
1.65	145	120	94.1	75.3	62.3	53.8	47.6	43.5	40.2	32.4	23.0	-	-	-	-	-	-	-	-
1.60	152	124	96.0	76.3	63.4	54.7	48.6	44.0	40.7	32.7	23.2	-	-	-	-	-	-	-	-

Ampere Hour @20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	33.7	35.4	36.8	38.0	41.0	42.1	43.2	48.4
1.80	34.2	36.4	37.8	39.1	42.1	43.5	44.7	50.1
1.75	34.5	36.6	38.3	39.5	42.5	43.8	45.0	50.4
1.70	35.2	37.8	39.5	40.7	43.4	44.9	46.3	51.9