



CTV 120-12

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	120Ah (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



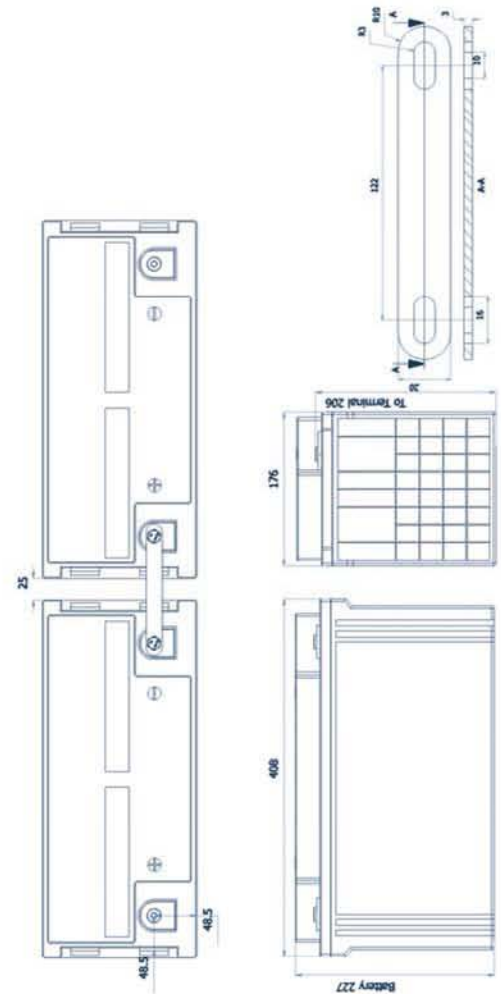
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidelines for recycling/disposal of lead

Specifications

		Nominal Voltage	12V
		Nominal Capacity	120 Ah
Dimensions	Total Height (Inc. terminals)	227 mm	8.94 inches
	Length	408 mm	16.06 inches
	Width	176 mm	6.93 inches
	Weight	35.4 Kg	78.23 lbs

Characteristics

Capacity 20 °C (68 °F) 1,7 volts To	20 hour rate	114.0 Ah
	10 hour rate	102.2 Ah
	5 hour rate	90.2 Ah
	1 hour rate	73.1 Ah
	15 min rate	46.4 Ah
	Internal Resistance Impedance	3 mOhms 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)	3300	
Terminal	Standard	16mm 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	397	333	285	249	225	203	185	172	158	131	96.1	75.4	53.2	40.8
1.80	485	393	320	275	240	215	195	179	166	135	97.9	77.3	54.0	41.7
1.75	494	413	330	281	246	219	198	181	169	136	98.1	77.9	54.4	41.8
1.70	516	417	338	284	249	222	201	185	171	138	99.9	78.4	54.9	42.5
1.65	538	422	341	287	253	225	203	186	173	140	101	-	-	-
1.60	564	438	352	292	254	227	205	188	174	141	102	-	-	-

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	213	178	152	132	119	107	97.4	90.6	82.6	68.1	49.8	38.9	27.3	20.8	17.0	11.5	9.54	8.17	5.32
1.80	265	213	173	148	129	115	103	94.9	87.7	70.7	51.1	40.1	27.8	21.4	17.5	11.9	9.87	8.46	5.51
1.75	272	226	180	152	133	118	106	96.4	89.4	71.5	51.4	40.5	28.1	21.5	17.7	12.0	9.93	8.50	5.54
1.70	287	231	186	155	136	120	108	98.8	91.2	73.1	52.4	40.9	28.5	21.9	18.0	12.3	10.2	8.76	5.70
1.65	301	235	188	157	138	122	109	99.9	92.4	74.4	53.2	-	-	-	-	-	-	-	-
1.60	316	244	195	161	139	123	111	101	92.9	74.9	53.8	-	-	-	-	-	-	-	-

Ampere Hour @20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	77.8	81.8	83.1	85.0	92.2	95.4	98.1	106
1.80	80.1	83.5	85.6	87.3	95.3	98.7	102	110
1.75	81.1	84.4	86.1	88.3	95.9	99.3	102	111
1.70	81.8	85.4	87.6	90.2	98.3	102	105	114