CTV 135-12

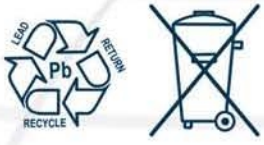
Datasheet

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	135Ah (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



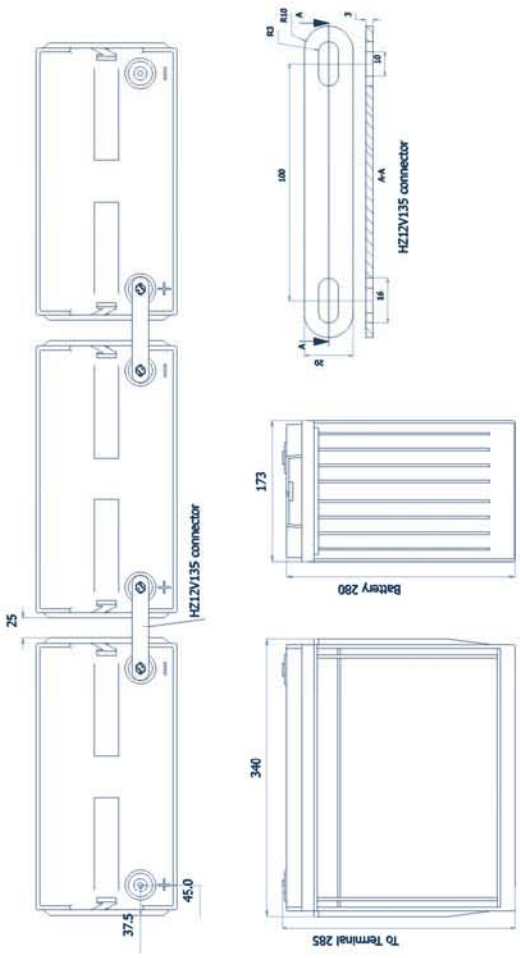
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidlines for recycling/disposal of lead

Specifications

	Nominal Voltage Nominal Capacity	12V 135 Ah	
Dimensions	Total Height	280 mm	11.02 inches
	(Inc. terminals)	- mm	n/a inches
	Length	340 mm	13.39 inches
	Width	173 mm	6.81 inches
	Weight	39.825 Kg	88.01 lbs

Characteristics

Capacity 20 °C (68 °F) To 1,7 volts	20 hour rate	125.7 Ah
	10 hour rate	112.6 Ah
	5 hour rate	102.4 Ah
	1 hour rate	86.5 Ah
	15 min rate	45.7 Ah
	Internal Resistance	2.5 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)	3750	
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	385	320	295	271	250	230	214	199	185	153	111	87.7	60.0	45.9
1.80	469	363	319	285	259	238	221	204	191	157	114	89.7	61.9	47.5
1.75	518	381	328	292	264	240	223	208	195	159	115	90.7	62.4	47.5
1.70	543	392	333	297	267	246	227	212	199	164	121	93.7	63.9	49.0
1.65	565	421	353	310	277	254	234	218	205	168	123	-	-	-
1.60	607	438	364	316	281	257	236	220	206	169	124	-	-	-

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	207	171	158	144	133	122	113	105	97.2	79.5	57.8	45.3	30.7	23.4	19.1	12.8	10.5	9.03	5.86
1.80	256	197	173	154	139	127	118	108	101	82.4	59.7	46.5	31.9	24.3	19.7	13.1	10.9	9.31	6.06
1.75	286	209	179	158	142	129	119	111	103	83.7	60.4	47.2	32.2	24.5	19.9	13.2	11.0	9.39	6.10
1.70	302	217	183	162	145	133	122	113	106	86.5	63.6	48.9	33.1	25.3	20.5	13.6	11.3	9.67	6.28
1.65	316	234	194	170	151	138	126	117	109	88.9	64.6	-	-	-	-	-	-	-	-
1.60	341	244	201	173	153	139	128	118	110	89.7	65.5	-	-	-	-	-	-	-	-

Ampere Hour @20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	90.5	92.2	93.6	95.6	102	105	108	117
1.80	93.0	95.6	97.3	98.5	105	109	112	121
1.75	94.4	96.7	97.9	99.5	106	110	113	122
1.70	97.7	99.4	101	102	109	113	116	126