

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	80Ah (C20 @ 20 °C)
Design Life	12 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
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	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	Insert 12mm Dia M5 thread. Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value for all types is 5-7 Nm
Cables	Connectors, cables, terminal covers on request.



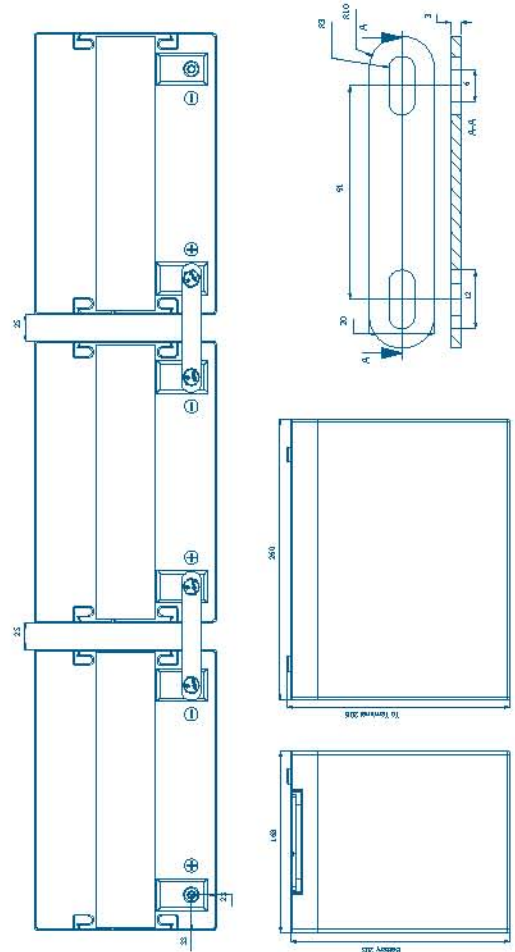
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidelines for recycling/disposal of lead

Specifications

	Nominal Voltage	12V	
	Nominal Capacity	80 Ah	
Dimensions	Total Height (Inc. terminals)	208 mm	8.19 inches
	Length	n/a mm	n/a inches
	Width	259 mm	10.20 inches
	Weight	168 mm	6.61 inches
		23.7 Kg	52.38 lbs

Characteristics

Capacity 20 °C (68 °F) To 1,7 volts	20 hour rate	78.4 Ah
	10 hour rate	68.6 Ah
	5 hour rate	62.0 Ah
	1 hour rate	55.6 Ah
	15 min rate	39.0 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)	2400	
Terminal	Standard	14mm Insert M6 thread
	Optional	Cu/Lead Flag - J Type - Auto
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	342	266	218	188	167	147	135	126	117	97.6	70.4	54.1	36.7	28.4
1.80	357	299	248	209	179	158	145	133	124	101	71.2	54.6	37.1	28.8
1.75	378	321	269	226	193	169	151	138	129	104	71.9	54.7	37.4	28.9
1.70	403	344	284	235	197	172	153	140	130	105	72.8	55.6	37.9	29.2
1.65	442	359	294	240	201	173	155	141	131	106	73.3	55.9	38.1	-
1.60	470	370	301	242	203	175	157	142	132	107	74.4	56.4	38.2	-

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	184	142	116	99.9	88.3	77.9	71.2	66.2	61.3	50.9	36.5	27.9	18.8	14.5	12.0	7.88	6.40	5.50	3.65
1.80	195	162	134	113	95.8	84.5	77.1	70.5	65.7	53.2	37.1	28.3	19.1	14.8	12.1	8.06	6.59	5.69	3.79
1.75	208	176	147	123	104	90.5	80.8	73.5	68.5	54.8	37.6	28.5	19.3	14.9	12.2	8.16	6.66	5.72	3.81
1.70	224	190	156	129	107	93.0	82.3	74.9	69.3	55.6	38.2	29.0	19.7	15.1	12.4	8.31	6.86	5.89	3.92
1.65	247	199	162	132	110	93.8	83.6	75.8	69.9	56.3	38.5	29.2	19.8	-	-	-	-	-	-
1.60	264	206	166	133	111	95.0	84.8	76.3	70.6	56.8	39.1	29.5	19.8	-	-	-	-	-	-

Ampere Hour @ 20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	55.8	56.4	58.0	59.8	63.0	64.0	66.0	73.1
1.80	56.6	57.4	59.0	60.7	64.5	65.9	68.3	75.7
1.75	56.9	58.0	59.4	61.2	65.3	66.6	68.6	76.1
1.70	58.0	59.0	60.3	62.0	66.5	68.6	70.7	78.4
1.65	58.4	59.3	-	-	-	-	-	-
1.60	59.0	59.5	-	-	-	-	-	-