

Datasheet

Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Special formation process
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - VO 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	115Ah (C20)
Design Life	12 Years
Operating Temperature	-30 °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 (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycling See Haze Cyclic charging profile 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 16mm Dia M6 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

www.ctm-berlin.de
info@ctm-berlin.de

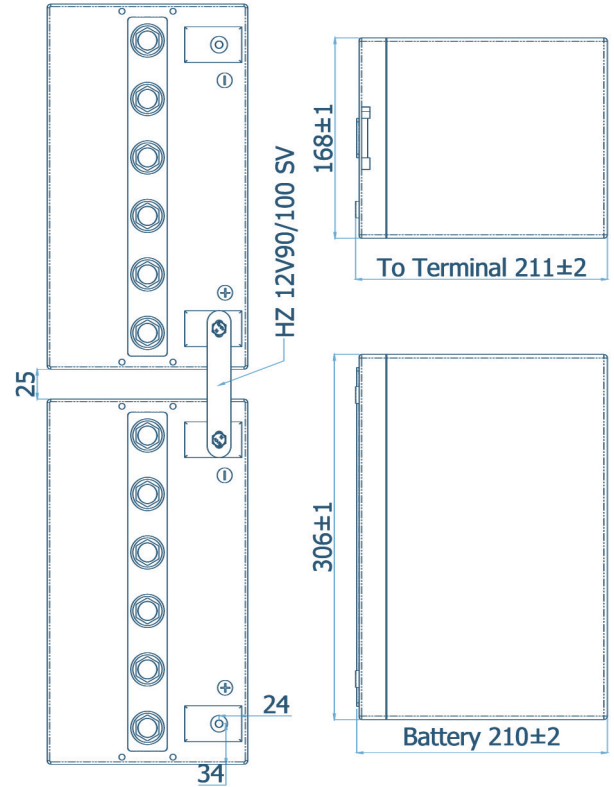
We power the future.

Specifications

	Nominal Voltage	12V	
	Nominal Capacity	115 Ah	
Dimensions	Total Height (Inc. terminals)	211 mm	8,31 inches
		n/a mm	n/a inches
	Length	306 mm	12,05 inches
	Width	168 mm	6,61 inches
	Weight	29,7 Kg	65,64 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1,7 volts	20 hour rate	115.8 Ah
	10 hour rate	109.7 Ah
	5 hour rate	100.5 Ah
	1 hour rate	72.6 Ah
	15 min rate	48.4 Ah
	Internal Resistance	3.4 mOhms
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)	2900	
Terminal	Standard	16mm 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 @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	12hr	20hr
1.85	540	389	315	262	227	201	182	166	152	123	89.4	70.4	49.2	38.2	31.4	26.9	23.6	21.1	17.4	14.8	9.42
1.80	576	415	336	279	243	214	195	177	163	132	95.5	75.2	52.5	40.8	33.6	28.8	25.2	22.5	18.5	15.8	10.06
1.75	613	442	358	297	258	228	207	189	173	140	102	80.0	55.9	43.5	35.7	30.6	26.8	24.0	19.7	16.8	10.7
1.70	627	451	365	304	264	233	212	193	177	143	104	81.8	57.1	44.4	36.5	31.3	27.4	24.5	20.2	17.1	10.9
1.67	632	455	369	307	266	235	214	194	179	144	105	82.5	57.6	44.8	-	-	-	-	-	-	-
1.65	635	457	370	308	267	236	214	195	179	145	105	82.8	57.8	45.0	-	-	-	-	-	-	-
1.60	641	461	374	311	270	238	216	197	181	146	106	83.6	58.4	45.4	-	-	-	-	-	-	-

Constant Amps Discharge - Amps @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	12hr	20hr
1.85	312	209	167	141	122	107	95.3	85.8	78.3	62.5	45.2	35.9	26.1	20.7	17.3	14.9	13.0	11.6	9.45	8.01	4.99
1.80	333	223	178	150	130	114	102	91.7	83.6	66.7	48.3	38.4	27.9	22.1	18.5	15.9	13.9	12.4	10.1	8.56	5.33
1.75	355	238	189	160	138	121	108	97.5	88.9	71.0	51.3	40.8	29.7	23.5	19.7	16.9	14.8	13.2	10.7	9.10	5.67
1.70	362	243	194	163	141	124	111	100	90.9	72.6	52.5	41.7	30.3	24.0	20.1	17.3	15.1	13.4	11.0	9.30	5.79
1.67	366	245	195	165	143	125	112	101	91.7	73.2	52.9	42.1	30.6	24.3	-	-	-	-	-	-	-
1.65	367	246	196	165	143	126	112	101	92.0	73.5	53.1	42.2	30.7	24.3	-	-	-	-	-	-	-
1.60	371	248	198	167	145	127	113	102	92.9	74.2	53.6	42.6	31.0	24.6	-	-	-	-	-	-	-

Ampere Hour @ 20-25 °C

End V per Cell	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	12hr	20hr
1.85	71.8	78.3	82.8	86.5	89.1	91.2	92.6	94.5	96.1	100
1.80	76.7	83.7	88.5	92.4	95.2	97.4	98.9	101	103	107
1.75	81.6	89.0	94.1	98.3	101	104	105	107	109	113
1.70	83.4	91.0	96.2	100	104	106	108	110	112	116
1.67	84.1	91.8	97.0	-	-	-	-	-	-	-
1.65	84.5	92.1	97.4	-	-	-	-	-	-	-
1.60	85.3	93.0	98.3	-	-	-	-	-	-	-