

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	77,5Ah (C20)
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 (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 14mm 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

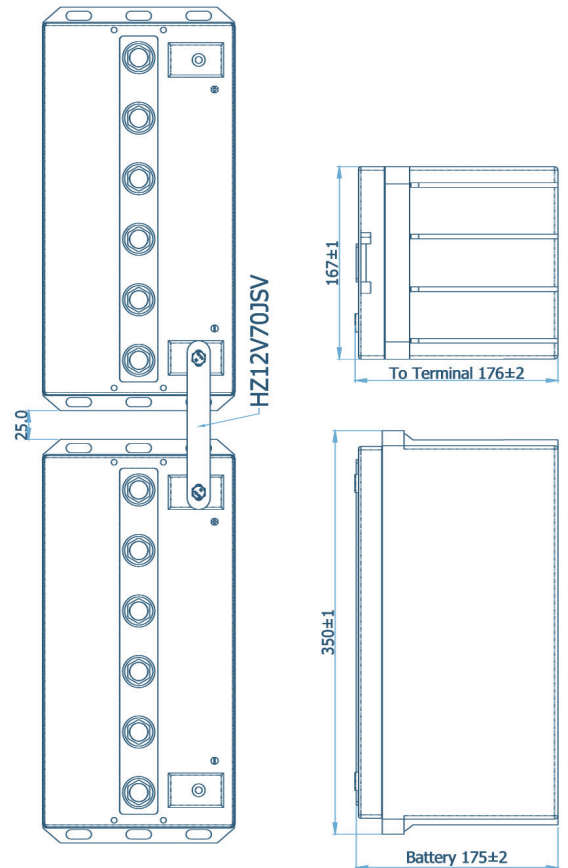
We power the future.

Specifications

		Nominal Voltage	12V	
		Nominal Capacity	77 Ah	
Dimensions	Total Height (Inc. terminals)	175 mm	6,89 inches	
	Length	349 mm	13,74 inches	
	Width	168 mm	6,61 inches	
	Weight	21,1 Kg	46,63 lbs	

Characteristics

Capacity 20-25 °C (68-77 °F) To 1,7 volts	20 hour rate	77.5 Ah
	10 hour rate	73.7 Ah
	5 hour rate	65.9 Ah
	1 hour rate	47.5 Ah
	15 min rate	31.9 Ah
	Internal Resistance Impedance	4.2 mOhms 900 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)	900	
Terminal	Standard	Cu Flag Insert M6 - J Type - Auto
	Optional	
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	387	264	206	174	151	135	122	110	101	80.8	58.3	46.3	33.6	26.9	22.9	19.8	17.4	15.6	12.9	11.0	7.02
1.80	414	282	220	186	161	144	130	118	108	86.3	62.3	49.4	35.9	28.7	24.4	21.1	18.6	16.7	13.8	11.7	7.50
1.75	440	300	234	198	171	154	138	125	115	91.8	66.3	52.6	38.2	30.5	26.0	22.5	19.8	17.7	14.7	12.5	7.98
1.70	450	307	239	202	175	157	141	128	118	93.8	67.7	53.8	39.1	31.2	26.6	23.0	20.3	18.1	15.0	12.8	8.15
1.67	454	309	241	204	177	158	143	129	119	94.6	68.3	54.2	39.4	31.5	-	-	-	-	-	-	-
1.65	455	311	242	205	177	159	143	130	119	95.0	68.6	54.4	39.6	31.6	-	-	-	-	-	-	-
1.60	460	314	244	207	179	160	145	131	120	95.9	69.2	55.0	39.9	31.9	-	-	-	-	-	-	-

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	211	143	110	90.3	77.3	68.2	61.7	56.0	51.4	40.9	29.6	23.4	17.1	13.7	11.4	9.79	8.60	7.69	6.34	5.38	3.34
1.80	225	153	117	96.5	82.5	72.9	65.9	59.8	54.9	43.7	31.6	25.0	18.3	14.7	12.1	10.5	9.19	8.21	6.78	5.74	3.56
1.75	240	163	125	103	87.8	77.6	70.1	63.6	58.4	46.5	33.6	26.6	19.4	15.6	12.9	11.12	9.77	8.74	7.21	6.11	3.79
1.70	245	166	128	105	89.7	79.3	71.6	65.0	59.7	47.5	34.3	27.2	19.9	15.9	13.2	11.36	9.99	8.93	7.37	6.24	3.88
1.67	247	168	129	106	90.5	80.0	72.2	65.6	60.2	47.9	34.6	27.4	20.0	16.1	-	-	-	-	-	-	-
1.65	248	168	129	106	90.9	80.3	72.5	65.8	60.4	48.1	34.8	27.5	20.1	16.1	-	-	-	-	-	-	-
1.60	250	170	130	107	91.8	81.0	73.2	66.5	61.0	48.6	35.1	27.8	20.3	16.3	-	-	-	-	-	-	-

Ampere Hour @ 20-25 °C

End V per Cell	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	12hr	20hr
1.85	46.8	51.3	54.5	56.8	58.7	60.2	61.5	63.4	64.5	66.7
1.80	50.0	54.8	58.2	60.6	62.7	64.3	65.7	67.8	68.9	71.3
1.75	53.2	58.3	61.9	64.5	66.7	68.4	69.9	72.1	73.3	75.8
1.70	54.4	59.6	63.3	65.9	68.2	69.9	71.4	73.7	74.9	77.5
1.67	54.9	60.1	63.8	-	-	-	-	-	-	-
1.65	55.1	60.3	64.1	-	-	-	-	-	-	-
1.60	55.6	60.9	64.7	-	-	-	-	-	-	-