

HZY12-70 Valve Regulated Lead Acid battery. 12 year design life for stand by power applications.

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 - 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	83.8Ah (C20) 1.75Vpc
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 2.27 - 2.30 VPC @25 °C Cyclic - See Haze cyclic charging profile. 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



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

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Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZY12-70

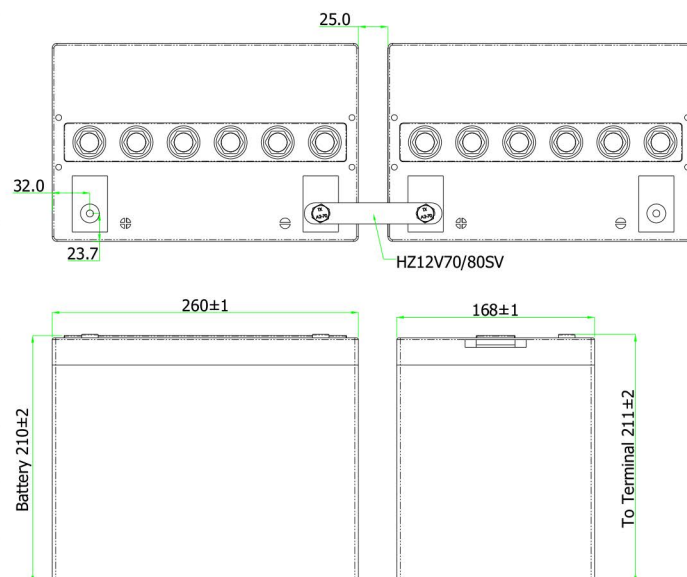
**12V
Gel**

Specifications

Nominal Voltage		12V	
Nominal Capacity		83.8 Ah	
Dimensions	Total Height	211 mm	8.31 inches
	(Inc. terminals)	- mm	n/a inches
	Length	260 mm	10.24 inches
	Width	168 mm	6.61 inches
Weight		24.2 Kg	53.48 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	83.8 Ah
	10 hour rate	74.9 Ah
	5 hour rate	66.1 Ah
	1 hour rate	48.5 Ah
	15 min rate	29.0 Ah
	Internal Resistance	5.2 mOhms
Capacity correction 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)	2100	
Terminal	Standard	14mm 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 @20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	255	195	164	142	125	112	102	93	86.5	69.7	50.1	39.0	27.3	21.0
1.80	273	209	175	151	133	119	109	100	92.4	74.4	53.5	41.6	29.1	22.4
1.75	290	222	186	161	142	127	116	106	98.3	79.2	56.9	44.3	31.0	23.9
1.70	296	227	191	165	145	130	118	108	100	80.9	58.2	45.3	31.6	24.4
1.67	299	229	192	166	146	131	119	109	101	81.7	58.7	45.7	31.9	24.6
1.65	300	230	193	167	147	131	120	110	102	82.0	58.9	45.9	32.1	24.7
1.60	303	232	195	168	148	133	121	111	103	82.8	59.5	46.3	32.4	24.9

Constant Amps Discharge - Amps @20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	159	124	102	86.9	75.6	66.7	60.3	55.2	50.9	42.7	31.1	24.4	17.6	14.0	11.63	10.02	8.84	7.93	6.59	5.65	3.69
1.80	170	132	109	92.8	80.7	71.3	64.4	59.0	54.3	45.6	33.2	26.1	18.7	14.9	12.4	10.70	9.44	8.47	7.04	6.04	3.94
1.75	181	141	116	98.7	85.9	75.9	68.5	62.7	57.8	48.5	35.3	27.8	19.9	15.9	13.2	11.38	10.05	9.01	7.49	6.42	4.19
1.70	185	144	119	100.9	87.7	77.5	70.0	64.1	59.1	49.5	36.1	28.4	20.4	16.2	13.5	11.63	10.27	9.21	7.66	6.56	4.28
1.67	186	145	120	101.8	88.5	78.2	70.7	64.7	59.6	50.0	36.4	28.6	20.6	16.4	-	-	-	-	-	-	-
1.65	187	146	120	102.2	88.9	78.5	70.9	64.9	59.8	50.2	36.5	28.7	20.6	16.4	-	-	-	-	-	-	-
1.60	189	147	121	103	89.7	79.3	71.6	65.6	60.4	50.7	36.9	29.0	20.8	16.6	-	-	-	-	-	-	-

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ACCUMULATORI

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**UL Recognised
Component
MH28512**