

**HZY12-70J 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	70Ah (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 2.25 - 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 HZY12-70J

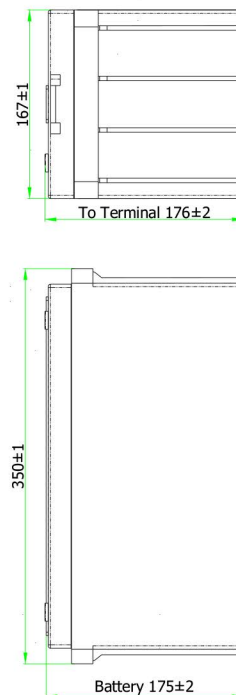
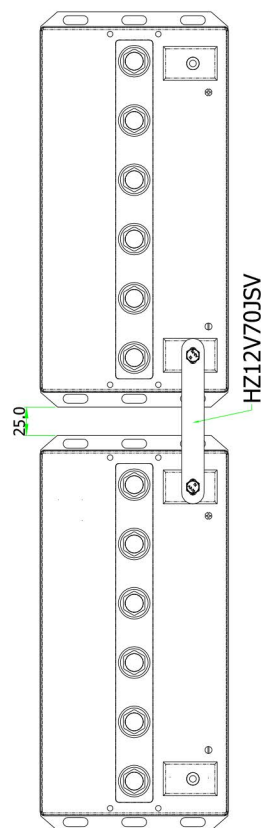
**12V
Gel**

Specifications

Nominal Voltage		12V	
Nominal Capacity		70 Ah	
Dimensions	Total Height	175 mm	6.89 inches
	(Inc. terminals)	- mm	n/a inches
	Length	349 mm	13.74 inches
	Width	168 mm	6.61 inches
	Weight	22.6 Kg	49.95 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	70.0 Ah
	10 hour rate	62.5 Ah
	5 hour rate	56.6 Ah
	1 hour rate	44.3 Ah
	15 min rate	27.8 Ah
	Internal Resistance	5.3 mOhms
Impedance		S
	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
Capacity correction for Temperature Variations (C20)	-15 °C (5 °F)	65%
	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
	Capacity after 6 months storage	86%
Self-Discharge 20 °C (68 °F)		
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	250	190	161	138	122	110	100	92.0	85.3	68.8	49.4	38.1	26.6	20.5
1.80	267	203	172	147	130	117	107	98	91.1	73.5	52.7	40.7	28.4	21.9
1.75	284	216	183	157	138	125	113	104	96.9	78.2	56.1	43.4	30.2	23.3
1.70	290	221	187	160	142	127	116	107	99.1	79.9	57.3	44.3	30.8	23.8
1.67	293	223	189	162	143	128	117	108	99.9	80.6	57.8	44.7	31.1	24.0
1.65	294	224	190	162	143	129	117	108	100.3	80.9	58.1	44.9	31.2	24.1
1.60	297	226	191	164	145	130	119	109	101.3	81.7	58.6	45.3	31.5	24.3

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	155	119	98.1	82.8	72.0	63.6	57.5	52.6	48.3	39.0	27.8	21.6	15.2	12.0	9.96	8.55	7.49	6.68	5.50	4.73	3.08
1.80	166	127	105	88.4	76.9	68.0	61.4	56.2	51.6	41.6	29.7	23.1	16.2	12.8	10.6	9.13	8.00	7.13	5.88	5.05	3.29
1.75	177	135	111	94.1	81.8	72.3	65.3	59.8	54.9	44.3	31.6	24.6	17.3	13.6	11.3	9.72	8.51	7.59	6.25	5.38	3.50
1.70	180	138	114	96.2	83.6	73.9	66.8	61.1	56.1	45.3	32.3	25.1	17.6	13.9	11.6	9.93	8.70	7.75	6.39	5.49	3.58
1.67	182	139	115	97.0	84.3	74.5	67.4	61.6	56.6	45.7	32.6	25.4	17.8	14.0	-	-	-	-	-	-	-
1.65	183	140	115	97.4	84.7	74.8	67.6	61.9	56.9	45.8	32.7	25.5	17.9	14.1	-	-	-	-	-	-	-
1.60	184	141	116	98.3	85.5	75.6	68.3	62.5	57.4	46.3	33.0	25.7	18.0	14.2	-	-	-	-	-	-	-

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ACCUMULATORI

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**UL Recognised
Component
MH28512**