

HZY12-70 Valve Regulated Lead Acid battery.
 12 year design life for stand by power applications.
 12 Volts 70 Ah (C20)

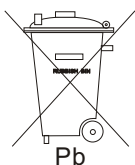
Innovative Features

- 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 - 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	70Ah (C20 @ 20 °C)
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 Cycling 2.35 @25 °C Max. 2.4 VPC 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.

Website: www.hazebattery.com
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Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZY12-70

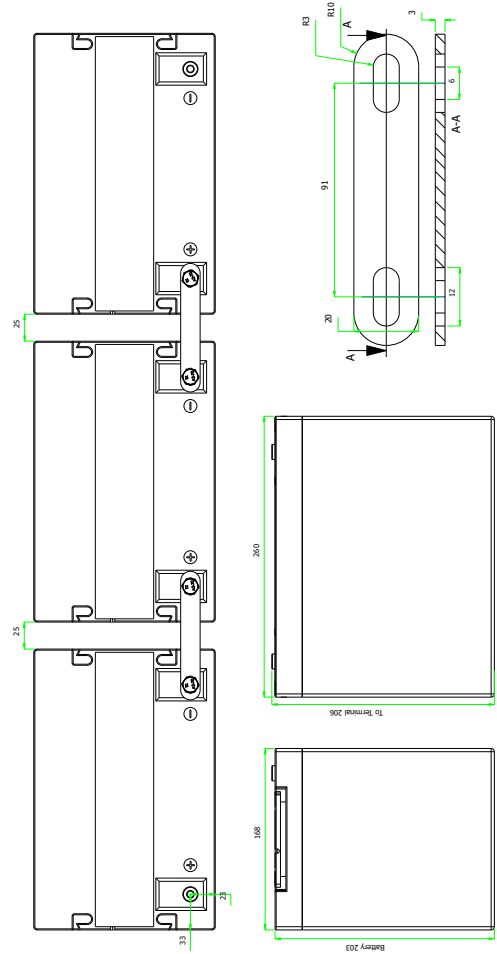
12V
Gel

Specifications

Nominal Vdtage		12V	
Nominal Capacity		70 Ah	
Dimensions	Total Height (Inc. terminals)	208 mm - mm	8.19 inches n/a inches
	Length	259 mm	10.20 inches
	Width	168 mm	6.61 inches
	Weight	21.5 Kg	47.52 lbs

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	64.4 Ah
	10 hour rate	56.3 Ah
	5 hour rate	50.8 Ah
	1 hour rate	43.3 Ah
	15 min rate	29.2 Ah
	Internal Resistance Impedance	5 mOhms S
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 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	251	206	175	153	133	120	110	102	95.0	79.7	56.6	43.6	30.1	23.2
1.80	275	233	193	162	139	124	113	104	99	79.9	56.5	43.9	30.6	23.5
1.75	290	249	205	170	147	129	117	108	100	81.0	57.3	44.1	30.8	23.6
1.70	304	264	212	176	150	133	119	109	101	81.9	57.9	44.7	31.0	24.0
1.65	315	272	220	181	155	134	120	110	102	82.8	58.5	-	-	-
1.60	330	279	226	184	157	137	122	112	104	83.5	59.1	-	-	-

Constant Amps Discharge - Amps @20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	135	110	93.3	81.2	70.8	63.5	57.8	53.4	49.8	41.6	29.3	22.5	15.4	11.8	9.7	6.46	5.36	4.58	3.05
1.80	150	127	104	87.3	74.5	66.4	60.2	55.2	52.1	41.9	29.5	22.7	15.8	12.1	9.9	6.56	5.44	4.67	3.11
1.75	160	136	112	92.2	79.2	69.3	62.5	57.5	53.3	42.7	30.0	22.9	15.9	12.1	10.0	6.62	5.47	4.72	3.14
1.70	169	146	117	96	81.7	71.9	64.2	58.2	54.0	43.3	30.4	23.3	16.1	12.4	10.2	6.77	5.63	4.84	3.22
1.65	176	151	121	99	84.1	72.5	64.8	58.8	54.6	43.8	30.8	-	-	-	-	-	-	-	-
1.60	185	156	125	101	85.9	74.2	66.1	60.2	55.6	44.3	31.1	-	-	-	-	-	-	-	-

Ampere Hour @20 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	44.9	46.3	47.3	48.3	51.7	53.6	54.9	61.0
1.80	45.5	47.3	48.3	49.5	52.5	54.4	56.1	62.2
1.75	45.9	47.8	48.6	49.8	52.9	54.7	56.7	62.8
1.70	46.6	48.2	49.4	50.8	54.2	56.3	58.0	64.4



UL Recognised
Component
MH28512

