

HZY12-55 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

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 - V0 on request

Low self discharge

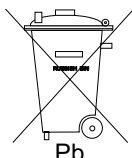
FAA and IATA approved as non-hazardous

Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



Specifications

Nominal Voltage	12 Volts
Nominal Capacity	50.4 Ah (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
E mail : sales@hazebattery.com

Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZY12-55

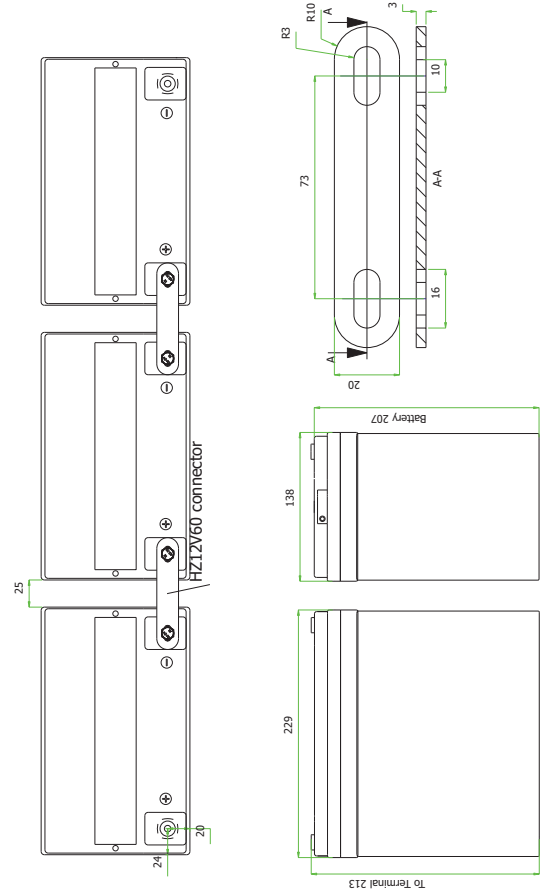
12V
Gel

Specifications

Nominal Voltage		12 V	
Nominal Capacity		50.4 Ah	
Dimensions	Total Height (Inc. terminals)	213 mm	8.39 inches
		- mm	n/a inches
	Length	229 mm	9.02 inches
	Width	138 mm	5.43 inches
	Weight	16.8 Kg	37.10 lbs

Characteristics

Capacity 20 °C (68 °F) to 1.75 volts	20 hour rate	50.4 Ah
	10 hour rate	45.6 Ah
	5 hour rate	39.9 Ah
	1 hour rate	31.6 Ah
	15 min rate	19.3 Ah
	Internal Resistance	6.5 mOhms
Capacity correction for Temperature Variations (C20)	Impedance	S
	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
Self-Discharge 20 °C (68 °F)	-15 °C (5 °F)	65%
	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
Short Circuit Current 20 °C (68 °F)	Capacity after 6 months storage	86%
		1700
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	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	213	161	134	115	101	89.9	81.7	74.7	69.2	56.1	41.0	32.3	23.0	18.1	-	-	-	-	-
1.80	232	172	142	121	105	93.6	84.3	77.1	71.2	57.6	41.9	33.0	23.6	18.6	-	-	-	-	-
1.75	240	177	146	123	107	95.2	85.7	78.4	72.3	58.2	42.3	33.4	23.8	18.8	-	-	-	-	-
1.70	253	184	149	125	109	96.8	87.3	79.3	73.2	58.8	42.7	33.7	24.0	19.0	-	-	-	-	-
1.65	262	190	152	127	110	98.0	88.4	80.1	73.9	59.6	43.2	34.1	24.3	19.1	-	-	-	-	-
1.60	274	194	154	130	112	99.4	89.7	81.3	74.9	60.2	43.7	34.4	24.5	19.3	-	-	-	-	-

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	114	84.0	70.2	60.5	53.1	47.5	43.2	39.9	37.0	30.0	21.5	16.8	11.8	9.20	7.59	5.09	4.23	3.63	2.39
1.80	127	91.0	75.0	63.7	55.4	49.6	45.0	41.5	38.3	31.1	22.0	17.2	12.1	9.45	7.82	5.25	4.35	3.72	2.47
1.75	133	95.5	77.1	65.5	56.9	50.8	46.0	42.3	39.1	31.6	22.4	17.5	12.3	9.69	7.99	5.37	4.45	3.80	2.52
1.70	141	98.8	79.3	66.8	57.8	51.7	46.8	42.8	39.6	31.9	22.7	17.7	12.6	9.86	8.14	5.47	4.55	3.91	2.60
1.65	147	101	81.1	68.2	58.8	52.5	47.5	43.5	40.0	32.4	23.0	17.9	12.7	10.0	-	-	-	-	-
1.60	154	104	82.9	69.3	59.5	53.1	48.0	44.0	40.5	32.7	23.2	18.1	12.9	10.1	-	-	-	-	-

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	33.6	35.4	36.8	37.9	40.7	42.3	43.5	47.8
1.80	34.4	36.3	37.8	39.1	42.0	43.5	44.6	49.4
1.75	35.0	36.9	38.7	39.9	42.9	44.5	45.6	50.4
1.70	35.4	37.8	39.4	40.7	43.7	45.5	46.9	52.0



UL Recognised
Component
MH28512

