

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
- 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	58.4Ah (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 HZY12-55

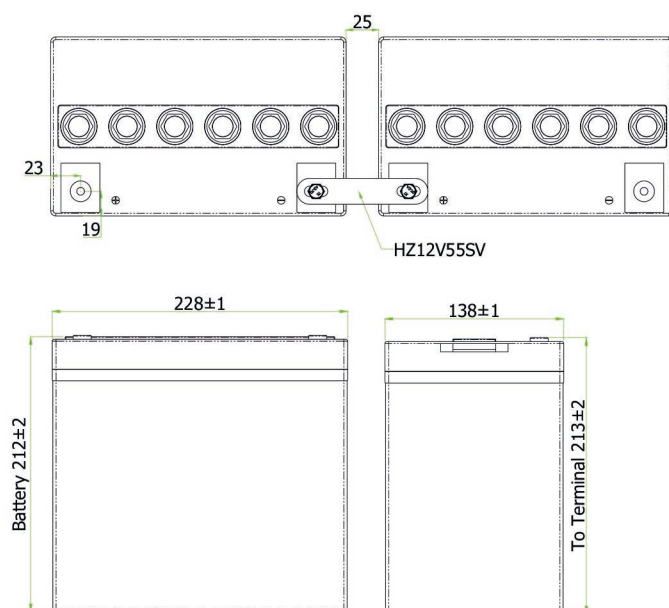
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		58.4 Ah	
Dimensions	Total Height	213 mm	8.39 inches
	(Inc. terminals)	- mm	n/a inches
	Length	229 mm	9.02 inches
	Width	138 mm	5.43 inches
Weight		17.7 Kg	39.12 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	58.4 Ah
	10 hour rate	53.7 Ah
	5 hour rate	48.6 Ah
	1 hour rate	35.9 Ah
	15 min rate	22.4 Ah
	Internal Resistance	7 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%
	Capacity after 6 months storage	86%
Short Circuit Current 20 °C (68 °F)	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 @20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	211	156	128	108	94	83.8	75.4	69.0	63.6	51.2	37.2	29.3	21.0	16.5
1.80	226	166	137	116	101	89.5	80.6	73.7	67.9	54.7	39.8	31.3	22.4	17.6
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	246	181	149	126	110	97.3	87.6	80.2	73.9	59.5	43.2	34.1	24.4	19.2
1.67	248	182	151	127	111	98.2	88.4	80.9	74.5	60.0	43.6	34.4	24.6	19.3
1.65	249	183	151	127	111	98.5	88.7	81.2	74.8	60.2	43.8	34.5	24.7	19.4
1.60	251	185	153	129	112	99.5	89.6	82.0	75.5	60.8	44.2	34.9	24.9	19.6

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	135	97.5	78.7	66.8	58.0	51.5	46.4	42.1	39.0	31.6	22.9	18.1	13.0	10.3	8.55	7.33	6.44	5.74	4.73	4.04	2.57
1.80	145	104	84.1	71.4	62.0	55.1	49.6	45.0	41.7	33.7	24.4	19.3	13.9	11.0	9.13	7.83	6.88	6.14	5.05	4.31	2.75
1.75	154	111	89.5	75.9	65.9	58.6	52.7	47.9	44.3	35.9	26.0	20.6	14.8	11.7	9.72	8.33	7.31	6.53	5.37	4.59	2.92
1.70	157	113	91.4	77.6	67.4	59.9	53.9	48.9	45.3	36.7	26.5	21.0	15.1	11.9	9.93	8.51	7.48	6.67	5.49	4.69	2.99
1.67	159	114	92.2	78.3	68.0	60.4	54.3	49.4	45.7	37.0	26.8	21.2	15.3	12.0	-	-	-	-	-	-	-
1.65	159	115	92.6	78.6	68.2	60.6	54.6	49.6	45.9	37.1	26.9	21.3	15.3	12.1	-	-	-	-	-	-	-
1.60	161	116	93.5	79.3	68.9	61.2	55.1	50.0	46.3	37.5	27.1	21.5	15.5	12.2	-	-	-	-	-	-	-

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ACCUMULATORI

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**UL Recognised
Component
MH28512**