

HZY12-44 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	44Ah (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 HZY12-44

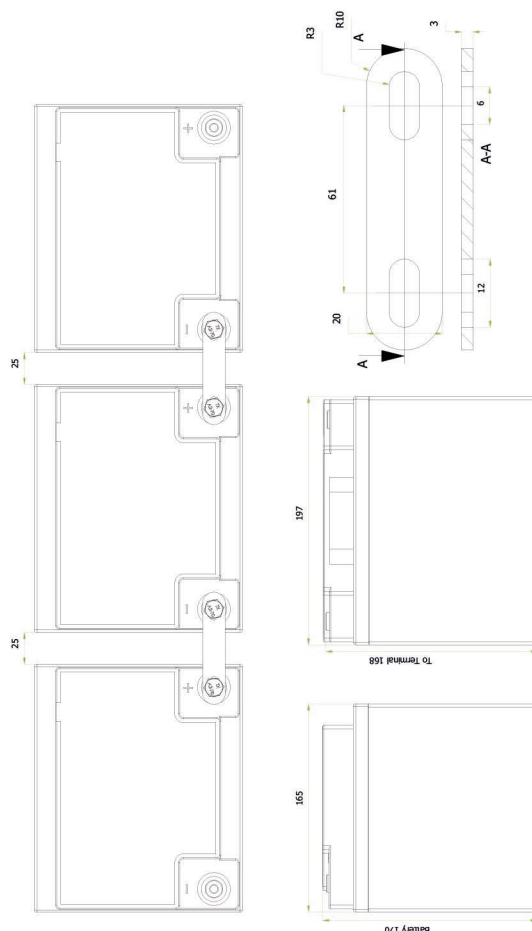
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		44.4 Ah	
Dimensions	Total Height	157 mm	6.18 inches
	(Inc. terminals)	- mm	n/a inches
	Length	198 mm	7.80 inches
	Width	167 mm	6.57 inches
	Weight	13.5 Kg	29.84 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	44.4 Ah
	10 hour rate	40.2 Ah
	5 hour rate	36.0 Ah
	1 hour rate	26.8 Ah
	15 min rate	18.3 Ah
	Internal Resistance	8 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%
	1400	
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	173	133	110	92.1	79.5	70.2	63.4	57.4	52.7	42.2	30.3	23.7	16.4	12.7
1.80	185	142	117	98	84.9	75.0	67.7	61.3	56.3	45.1	32.4	25.3	17.5	13.6
1.75	197	151	125	105	90.4	79.7	72.0	65.2	59.9	48.0	34.5	26.9	18.7	14.4
1.70	201	154	127	107	92.3	81.5	73.6	66.6	61.2	49.1	35.2	27.5	19.1	14.8
1.67	203	155	129	108	93.2	82.2	74.2	67.2	61.8	49.5	35.5	27.8	19.2	14.9
1.65	204	156	129	108	93.5	82.5	74.5	67.5	62.0	49.7	35.7	27.9	19.3	14.9
1.60	206	158	130	109	94.4	83.3	75.2	68.1	62.6	50.2	36.0	28.1	19.5	15.1

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	105	81.5	64.2	52.9	45.4	39.9	35.7	32.2	29.5	23.6	17.2	13.7	9.84	7.71	6.34	5.42	4.77	4.26	3.54	3.03	1.95
1.80	112	87.0	68.6	56.5	48.5	42.6	38.2	34.4	31.5	25.2	18.4	14.6	10.51	8.24	6.77	5.79	5.10	4.55	3.78	3.23	2.09
1.75	119	92.6	73.0	60.1	51.6	45.3	40.6	36.6	33.5	26.8	19.6	15.5	11.2	8.76	7.20	6.16	5.42	4.84	4.02	3.44	2.22
1.70	121	94.6	74.6	61.4	52.8	46.3	41.5	37.4	34.2	27.4	20.0	15.9	11.4	8.96	7.36	6.30	5.54	4.95	4.11	3.51	2.27
1.67	123	95.4	75.2	61.9	53.2	46.7	41.9	37.7	34.5	27.6	20.2	16.0	11.5	9.04	-	-	-	-	-	-	-
1.65	123	95.8	75.5	62.2	53.4	46.9	42.0	37.9	34.7	27.7	20.2	16.1	11.6	9.07	-	-	-	-	-	-	-
1.60	124	96.7	76.3	62.8	54.0	47.4	42.4	38.2	35.0	28.0	20.4	16.2	11.7	9.16	-	-	-	-	-	-	-

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ACCUMULATORI

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**UL Recognised
Component
MH28512**