

HZY12-44 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 44 Ah (C20)

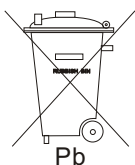
Innovative Features

- 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	44Ah (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 HZY12-44

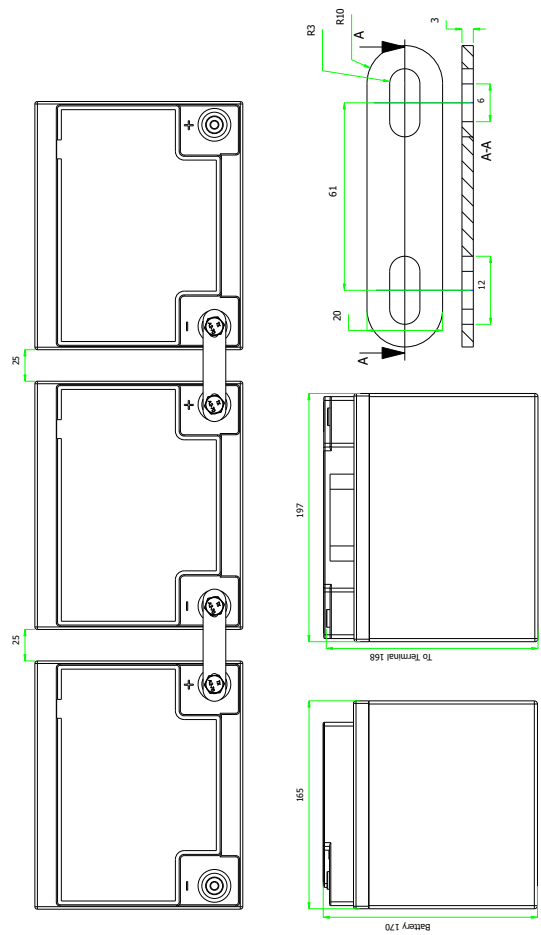
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		44 Ah	
Dimensions	Total Height (Inc. terminals)	170 mm	6.69 inches
	Length	197 mm	7.76 inches
	Width	165 mm	6.50 inches
	Weight	14 Kg	30.94 lbs

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	39.7 Ah
	10 hour rate	35.5 Ah
	5 hour rate	31.3 Ah
	1 hour rate	26.0 Ah
	15 min rate	18.7 Ah
	Internal Resistance	7.5 mOhms
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)	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 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	177	145	119	100	86.8	76.7	69.4	63.1	58.2	47.1	33.6	26.3	18.2	13.9
1.80	189	158	128	107	92.0	80.6	72.5	65.4	59.8	48.3	34.4	27.1	18.6	14.4
1.75	197	166	134	109	93.8	82.3	73.2	65.9	60.1	48.3	34.5	27.2	18.8	14.5
1.70	203	169	136	111	94.4	82.6	73.4	66.1	60.9	49.2	35.0	27.5	19.1	14.7
1.65	207	171	138	112	95	83.1	73.9	66.8	61.4	49.5	35.3	-	-	-
1.60	213	173	140	113	96	84.0	74.5	67.7	61.8	49.8	35.6	-	-	-

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	94.9	77.5	63.2	53.2	46.0	40.5	36.6	33.2	30.5	24.6	17.4	13.6	9.32	7.10	5.85	3.96	3.32	2.84	1.85
1.80	103	85.9	69.5	57.4	49.3	43.0	38.6	34.6	31.6	25.3	17.9	14.0	9.6	7.36	6.06	4.10	3.41	2.93	1.92
1.75	109	91.0	73.1	59.1	50.6	44.2	39.1	35.0	31.9	25.5	18.0	14.1	9.7	7.45	6.12	4.15	3.45	2.96	1.93
1.70	113	93.6	74.7	60.7	51.3	44.6	39.5	35.4	32.5	26.0	18.3	14.4	9.9	7.59	6.26	4.26	3.55	3.04	1.99
1.65	116	95	76.1	61.2	51.8	45.0	39.8	35.8	32.8	26.2	18.6	-	-	-	-	-	-	-	-
1.60	120	97	77.5	61.8	52.4	45.6	40.2	36.4	33.1	26.4	18.7	-	-	-	-	-	-	-	-

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	27.1	28.0	28.4	29.2	31.7	33.2	34.1	37.0
1.80	28.1	28.7	29.4	30.3	32.8	34.1	35.2	38.3
1.75	28.3	29.1	29.8	30.6	33.2	34.5	35.5	38.6
1.70	28.7	29.7	30.4	31.3	34.0	35.5	36.5	39.7



UL Recognised
Component
MH28512

