

HZY12-90FA Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 90 Ah

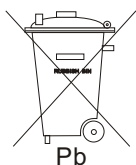
Features - Designed to meet the future needs of the Tele-communications industry for - mobile, wired, access, transmission, switching, integrated power applications etc. Resulting in the following benefits to the customer:

- Compactness
- ETSI / 19" / 23" Integration
- Modularity
- Rackable Standard component
- Long life
- Use under extreme conditions
- High power volume ratio
- Maintenance free utilising VRLA Gel technology
- Low Installation costs
- Front Connections and terminal access
- Long Design Life - 12 years
- Rope handles on 70Ah upwards
- Central gassing system and hinged front covers on all models
- Integral flame arrestor
- Low Internal resistance
- Recyclable lead and plastics
- Designed to meet BELLCORE, BS6290 Pt4, IEC896-2 recommendations
- Excellent Cycling ability
- Low self discharge rates



Specifications

Nominal Voltage	12 Volts
Design Life	12 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Gel - Microporous Duroplastic
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.27 - 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
Torque setting	The recommended torque value is 5-7 Nm
Connectors	Supplied as standard



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

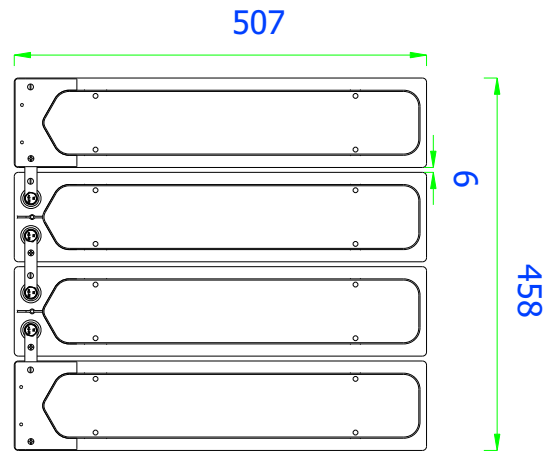
Website: www.hazebattery.com
E mail : sales@hazebattery.com

Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZB12-90FA

12V
AGM

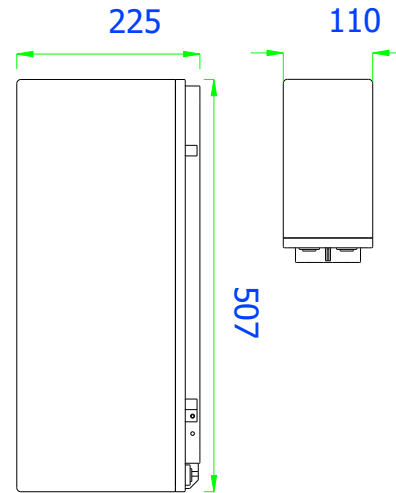
Specifications

Nominal Voltage		12V	
Nominal Capacity		90 Ah	C10
Dimensions	Total Height (Inc. terminals)	225 mm n/a mm	8.86 inches n/a inches
	Length	505 mm	19.88 inches
	Width	110 mm	4.33 inches
	Weight	30.88 Kg	68.24 lbs



Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	111.9 Ah
	10 hour rate	100.2 Ah
	5 hour rate	87.5 Ah
	1 hour rate	69.3 Ah
	15 min rate	45.0 Ah
	Internal Resistance	3.7 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%
Short Circuit Current 20 °C (68 °F)	Capacity after 6 months storage	86%
	Standard	16mm Insert M6 thread
Terminal	Optional	
	Charging (Constant Voltage)	Cyclic
	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	360	307	259	220	192	175	159	144	132	106	74.2	58.1	41.6	33.0
1.80	416	364	309	263	232	212	192	175	161	130	91.0	71.8	51.2	40.6
1.75	444	378	318	270	237	215	195	178	163	130	91.0	71.8	51.3	40.7
1.70	472	392	327	276	241	219	198	180	165	130	91.0	72.0	51.4	40.8
1.65	486	399	330	278	242	219	198	180	165	130	90.9	71.2	50.8	-
1.60	514	414	338	282	245	220	199	180	165	130	90.9	71.2	50.8	-

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	193	164	138	117	102	92.5	83.7	75.9	69.4	55.5	38.7	30.0	21.3	16.8	14.2	9.69	8.14	7.01	4.66
1.80	227	198	167	142	124	113	102	92.9	85.1	68.5	47.7	37.0	26.2	20.7	17.3	11.7	9.75	8.32	5.28
1.75	245	207	174	146	128	116	104	94.6	86.4	68.9	47.9	37.1	26.3	20.7	17.4	11.8	9.88	8.46	5.44
1.70	263	217	180	151	131	118	106	96.3	87.7	69.3	48.1	37.1	26.3	20.8	17.5	11.9	10.0	8.60	5.60
1.65	272	222	182	152	132	119	107	96.5	88.0	69.4	48.2	37.2	26.4	-	-	-	-	-	-
1.60	289	231	187	155	133	120	107	96.9	88.3	69.4	48.2	37.2	26.4	-	-	-	-	-	-

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	59.9	63.9	67.3	70.9	77.6	81.4	84.1	93.2
1.80	74.0	78.7	82.8	86.7	93.8	97.5	99.9	106
1.75	74.1	78.9	82.9	87.1	94.6	98.8	101	109
1.70	74.3	79.0	83.1	87.5	95.3	100	103	112
1.65	74.4	79.1	-	-	-	-	-	-
1.60	74.5	79.3	-	-	-	-	-	-



UL Recognised
Component
MH28512

