

HZY12-50FA Valve Regulated Lead Acid battery.  
12 year design life for stand by power applications.  
12 Volts 50 Ah

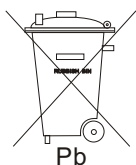
**Features** - Designed to meet the future needs of the Tele-communications industry for - mobile, wired, access, transmission, switching, integrated power applications etc. Resulting in the following benefits to the customer:

- 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](http://www.hazebattery.com)  
E mail : [sales@hazebattery.com](mailto:sales@hazebattery.com)

Sealed Lead Acid 12 Volt Bloc GEL Range  
PRODUCT SHEET HZB12-50FA

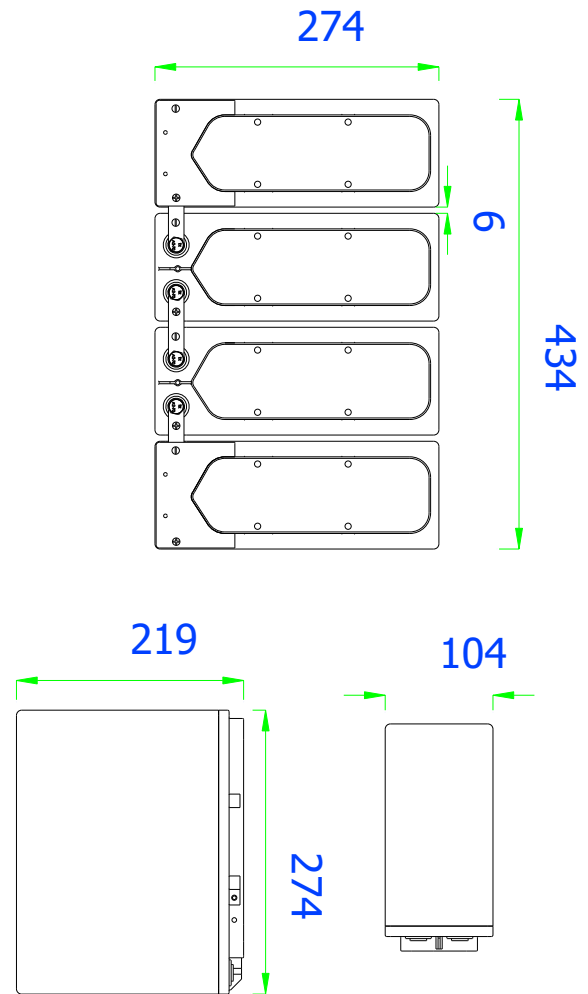
**12V  
AGM**

## Specifications

Nominal Voltage		12V	
Nominal Capacity		50 Ah	C10
Dimensions	Total Height (Inc. terminals)	225 mm	8.86 inches
	Length	280 mm	11.02 inches
	Width	105 mm	4.13 inches
	Weight	17.1 Kg	37.79 lbs

## Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	61.1 Ah
	10 hour rate	54.9 Ah
	5 hour rate	48.3 Ah
	1 hour rate	39.0 Ah
	15 min rate	25.2 Ah
	Internal Resistance	4.1 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)		
Terminal	Standard	16mm Insert M6 thread
	Optional	
Charging (Constant Voltage)	Cyclic	2.40 VPC (15-25 °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	212	172	145	124	111	100	90.2	81.9	75.7	59.8	41.6	32.6	23.1	18.4
1.80	245	204	173	149	133	121	109	99.4	92.0	73.3	50.9	40.2	28.5	22.6
1.75	261	212	178	153	136	123	111	101	93.1	73.4	50.9	40.3	28.6	22.6
1.70	278	220	183	156	139	125	112	102	94.0	73.4	51.0	40.3	28.6	22.7
1.65	286	223	185	157	139	125	112	102	94.1	73.4	50.9	39.9	28.3	-
1.60	303	232	189	159	141	126	113	102	94.3	73.4	50.9	39.9	28.3	-

## 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	92.1	77.2	66.0	58.7	52.9	47.5	43.0	39.6	31.3	21.7	16.8	11.9	9.36	7.83	5.37	4.46	3.83	2.54
1.80	134	111	93.6	80.2	71.5	64.7	58.1	52.7	48.6	38.6	26.7	20.7	14.6	11.5	9.59	6.49	5.35	4.55	2.88
1.75	144	116	97.1	82.7	73.5	66.1	59.3	53.7	49.4	38.8	26.8	20.8	14.6	11.5	9.63	6.54	5.42	4.62	2.97
1.70	155	121	101	85.2	75.4	67.5	60.4	54.6	50.1	39.0	26.9	20.8	14.7	11.6	9.67	6.60	5.49	4.70	3.05
1.65	160	124	102	85.9	75.7	67.8	60.6	54.7	50.2	39.1	27.0	20.8	14.7	-	-	-	-	-	-
1.60	170	129	104	87.5	76.8	68.4	60.9	54.9	50.4	39.1	27.0	20.9	14.7	-	-	-	-	-	-

## 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	33.6	35.6	37.4	39.2	42.9	44.6	45.9	50.9
1.80	41.5	43.8	46.0	47.9	51.9	53.5	54.5	57.7
1.75	41.5	43.9	46.1	48.2	52.3	54.2	55.4	59.4
1.70	41.6	44.0	46.2	48.3	52.8	54.9	56.3	61.1
1.65	41.7	44.0	-	-	-	-	-	-
1.60	41.7	44.1	-	-	-	-	-	-



UL Recognised  
Component  
MH28512

