

HZY12-230 Valve Regulated Lead Acid battery.  
 12 year design life for stand by power applications.  
 12 Volts 230 Ah (C20)

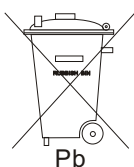
### Innovative Features

- 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	230Ah (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](http://www.hazebattery.com)  
 E mail : [sales@hazebattery.com](mailto:sales@hazebattery.com)

**Sealed Lead Acid 12 Volt Bloc GEL Range**  
**PRODUCT SHEET HZY12-230**

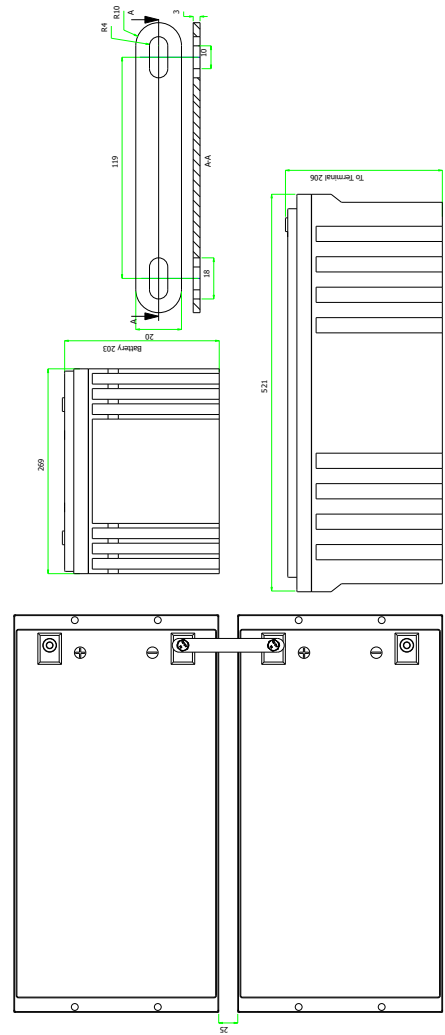
**12V**  
**Gel**

## Specifications

Nominal Voltage		12V	
Nominal Capacity		230 Ah	
Dimensions	Total Height (Inc. terminals)	203 mm	7.99 inches
	Length	521 mm	20.51 inches
	Width	269 mm	10.59 inches
	Weight	71 Kg	156.91 lbs

## Characteristics

Capacity 20 °C (68 °F) 1.7 volts	20 hour rate	218.5 Ah
	10 hour rate	196.2 Ah
	5 hour rate	173.0 Ah
	1 hour rate	133.4 Ah
	15 min rate	68.3 Ah
	Internal Resistance	<2 mOhms
	Impedance	S
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)	5900	
Terminal	Standard	18mm Insert M8 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	539	476	416	382	355	334	313	296	276	241	178	141	99.8	78.3
1.80	634	531	453	419	382	355	331	308	293	249	181	143	100	79.2
1.75	668	564	480	439	400	369	341	314	299	252	184	144	101	79.4
1.70	692	583	497	453	409	372	346	319	301	252	184	145	102	80.9
1.65	711	590	509	461	412	374	349	323	304	256	188	-	-	-
1.60	740	599	513	465	415	377	353	325	307	259	190	-	-	-

## 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	289	255	222	203	188	176	165	156	145	126	92.0	72.8	51.1	39.9	33.0	22.1	18.4	15.7	10.18
1.80	346	288	245	226	205	189	176	163	155	130	94.2	74.1	51.8	40.6	33.8	22.9	19.1	16.3	10.54
1.75	369	310	262	238	216	198	182	167	158	133	96.2	74.7	52.1	40.9	34.0	23.0	19.2	16.4	10.61
1.70	385	323	273	247	222	201	186	171	160	133	96.8	75.8	52.9	41.7	34.6	23.6	19.6	16.8	10.93
1.65	397	327	281	252	224	203	188	173	162	135	99.1	-	-	-	-	-	-	-	-
1.60	416	334	283	255	226	205	191	175	164	137	100	-	-	-	-	-	-	-	-

## 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	146	153	160	165	177	184	189	204
1.80	148	155	162	169	183	191	195	211
1.75	149	156	163	170	184	192	196	212
1.70	152	159	167	173	189	196	202	219

