

**HZY12-230 Valve Regulated Lead Acid battery.
12 year design life for stand by power
applications. 12 Volts 257 Ah (C20)**

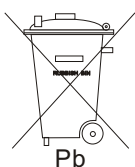
Innovative Features

- 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 - 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 CycliSee 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.

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

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

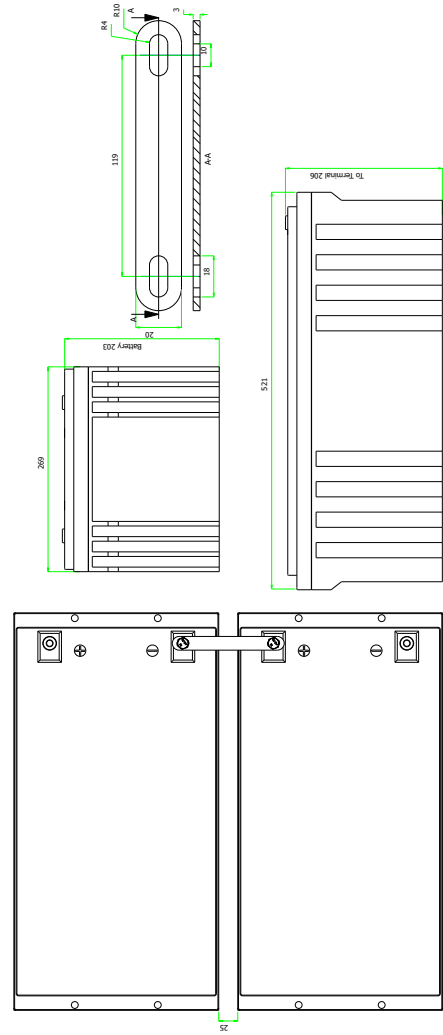
**12V
Gel**

Specifications

Nominal Voltage		12V	
Nominal Capacity		230 Ah	
Dimensions	Total Height (Inc. terminals)	203 mm - mm	7.99 inches n/a inches
	Length	521 mm	20.51 inches
	Width	269 mm	10.59 inches
	Weight	74.50 Kg	164.65 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	262.7 Ah
	10 hour rate	242.6 Ah
	5 hour rate	216.3 Ah
	1 hour rate	152.6 Ah
	15 min rate	77.5 Ah
	Internal Resistance	2.3 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)	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 @20-25 °C

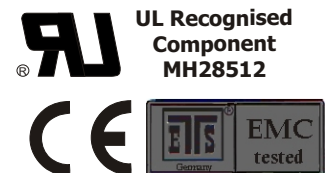
End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	588	492	424	380	344	317	296	276	261	219	161	127	89.4	70.2
1.80	628	525	453	406	368	338	316	295	279	234	172	136	95	74.9
1.75	668	559	482	432	391	360	336	314	296	249	183	144	102	79.7
1.70	683	571	492	442	400	368	343	321	303	255	187	147	104	81.5
1.67	689	576	497	445	403	371	346	324	306	257	189	149	105	82.2
1.65	692	578	498	447	405	373	348	325	307	258	189	149	105	82.5
1.60	698	584	503	451	409	376	351	328	310	260	191	151	106	83.3

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	376	307	267	240	218	199	184	171	159	131	96.7	77.6	56.8	44.9	37.2	32.1	28.2	25.3	20.9	17.9	11.3
1.80	401	328	285	257	233	213	197	182	170	140	103.3	82.9	60.7	47.9	39.8	34.2	30.1	27.0	22.3	19.1	12.1
1.75	427	349	303	273	248	227	209	194	181	149	110	88.2	64.5	51.0	42.3	36.4	32.1	28.7	23.7	20.3	12.9
1.70	436	357	310	279	254	232	214	198	185	153	112	90.1	66.0	52.1	43.3	37.2	32.8	29.3	24.3	20.8	13.1
1.67	440	360	313	281	256	234	216	200	187	154	113	90.9	66.5	52.6	-	-	-	-	-	-	-
1.65	442	362	314	283	257	235	217	201	187	155	114	91.3	66.8	52.8	-	-	-	-	-	-	-
1.60	446	365	317	285	259	237	219	203	189	156	115	92.2	67.5	53.3	-	-	-	-	-	-	-

Ampere Hour @20-25 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	145	155	170	179	186	192	197	202	209	215
1.80	166	182	192	199	205	211	216	223	229	242
1.75	176	194	204	212	219	224	230	237	244	257
1.70	180	198	208	216	223	229	235	243	249	263
1.67	182	200	210	-	-	-	-	-	-	-
1.65	183	200	211	-	-	-	-	-	-	-
1.60	184	202	213	-	-	-	-	-	-	-



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