

HZY12-160 Valve Regulated Lead Acid battery.
 12 year design life for stand by power applications.

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 - V0 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	187Ah (C20) 1.75Vpc
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 Cyclic - See 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.

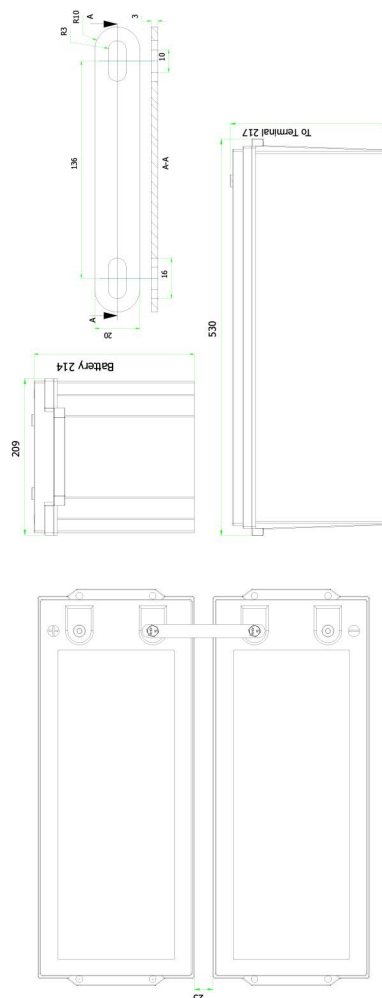
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Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZY12-160

12V
Gel

Nominal Voltage		12V	
Nominal Capacity		187 Ah	
Dimensions	Total Height	214 mm	8.43 inches
	(Inc. terminals)	- mm	n/a inches
	Length	530 mm	20.87 inches
	Width	209 mm	8.23 inches
	Weight	54.90 Kg	121.33 lbs

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	187.0 Ah
	10 hour rate	171.0 Ah
	5 hour rate	155.0 Ah
	1 hour rate	108.0 Ah
	15 min rate	63.0 Ah
	Internal Resistance	3.1 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%
	Capacity after 6 months storage	86%
Short Circuit Current 20 °C (68 °F)	4700	
Terminal	Standard Optional	16mm Insert M6 thread Cu Flag
Charging (Constant Voltage)	Cyclic	2.35 - 2.40 VPC (20-25 °C)
	Float	2.27 - 2.30 VPC (15-25 °C)



End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	489	396	344	303	276	254	235	216	202	166	122	96	67.8	53.2
1.80	522	423	368	324	295	271	251	231	215	177	130	103	72.5	56.8
1.75	556	450	391	345	314	289	267	246	229	188	138	110	77.1	60.4
1.70	568	460	400	352	321	295	272	251	234	192	141	112	78.8	61.7
1.67	573	464	403	355	324	298	275	254	236	194	143	113	79.5	62.3
1.65	575	466	405	357	325	299	276	255	237	195	143	113	79.8	62.5
1.60	581	470	409	360	328	302	279	257	240	197	144	115	80.6	63.1

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	326	253	221	195	172	155	141	128	117	94.7	70.6	57.0	41.4	32.9	27.3	23.4	20.4	18.2	15.0	12.8	8.22
1.80	349	270	236	208	184	166	151	136	125	101.1	75.5	60.9	44.2	35.2	29.1	25.0	21.8	19.5	16.1	13.7	8.78
1.75	371	288	252	222	196	176	160	145	133	108	80.3	64.8	47.1	37.4	31.0	26.6	23.2	20.7	17.1	14.6	9.35
1.70	379	294	257	226	200	180	164	148	136	110	82.0	66.2	48.1	38.2	31.7	27.2	23.7	21.2	17.5	14.9	9.55
1.67	382	296	259	228	202	182	165	149	137	111	82.8	66.8	48.5	38.6	-	-	-	-	-	-	-
1.65	384	298	260	229	203	183	166	150	137	111	83.1	67.1	48.7	38.7	-	-	-	-	-	-	-
1.60	388	300	263	232	205	184	167	151	139	112	83.9	67.7	49.2	39.1	-	-	-	-	-	-	-

RV

**UL Recognised
Component
MH28512**