

HZY12-135 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	158Ah (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 HZY12-135

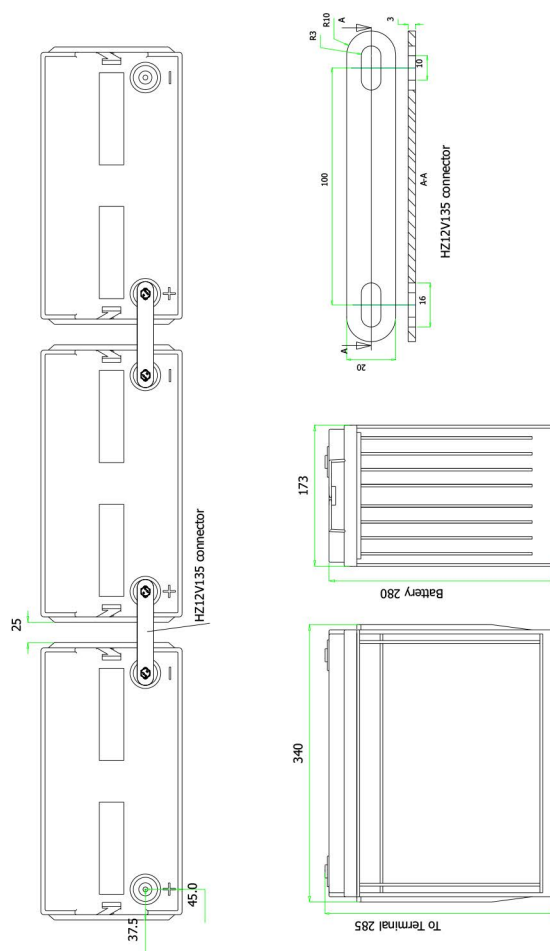
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		158 Ah	
Dimensions	Total Height	283 mm	11.14 inches
	(Inc. terminals)	- mm	n/a inches
	Length	340 mm	13.39 inches
	Width	173 mm	6.81 inches
Weight		44.10 Kg	97.46 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	158.0 Ah
	10 hour rate	143.0 Ah
	5 hour rate	130.0 Ah
	1 hour rate	94.8 Ah
	15 min rate	51.8 Ah
Internal Resistance	Internal Resistance	4 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)	3750	
Terminal	Standard	16mm Insert M6 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	456	335	289	257	232	212	196	183	171	140	102	79.8	55.2	42.5
1.80	487	358	308	274	248	226	209	195	183	149	109	85.3	59.0	45.4
1.75	518	381	328	292	264	240	223	208	195	159	115	90.7	62.8	48.3
1.70	529	389	335	298	270	246	227	212	199	162	118	92.7	64.1	49.4
1.67	534	393	338	301	272	248	229	214	201	164	119	93.5	64.7	49.8
1.65	536	394	339	302	273	249	230	215	201	164	119	93.9	65.0	50.0
1.60	541	398	343	305	276	251	233	217	203	166	121	94.8	65.6	50.5

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	292	213	183	161	145	132	121	111	102	83.4	60.4	47.9	35.0	27.6	22.9	19.6	17.2	15.3	12.6	10.8	6.95
1.80	311	228	195	172	155	141	129	118	109	89.1	64.5	51.2	37.4	29.5	24.4	20.9	18.3	16.4	13.4	11.5	7.43
1.75	331	242	207	183	165	150	137	126	116	94.8	68.6	54.4	39.8	31.4	26.0	22.3	19.5	17.4	14.3	12.3	7.90
1.70	339	248	212	187	169	153	140	128	118	96.8	70.1	55.6	40.7	32.1	26.6	22.8	19.9	17.8	14.6	12.5	8.07
1.67	342	250	214	189	170	155	141	130	119	97.7	70.7	56.1	41.1	32.4	-	-	-	-	-	-	-
1.65	343	251	215	190	171	155	142	130	120	98.1	71.0	56.3	41.2	32.5	-	-	-	-	-	-	-
1.60	346	253	217	191	172	157	143	131	121	99.0	71.7	56.9	41.6	32.8	-	-	-	-	-	-	-

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ACCUMULATORI

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UL Recognised
Component
MH28512