

HZY12-80 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
- 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 - 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	86Ah (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 HZY12-80

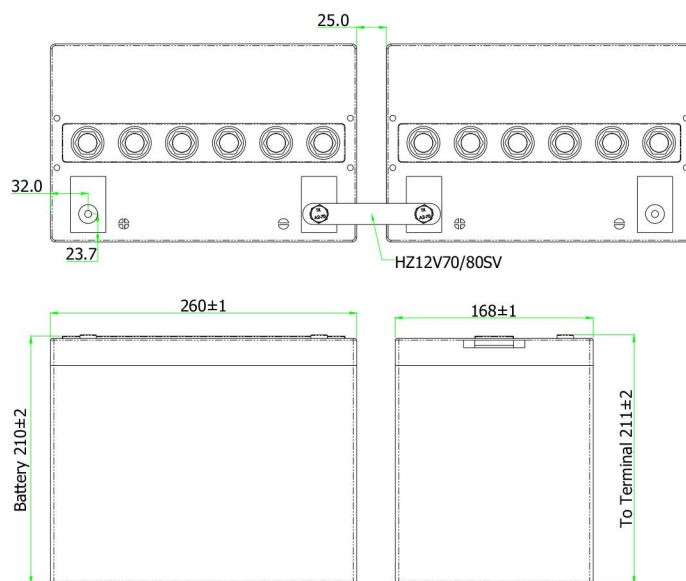
**12V
Gel**

Specifications

Nominal Voltage		12V	
Nominal Capacity		86 Ah	
Dimensions	Total Height	211 mm	8.31 inches
	(Inc. terminals)	- mm	n/a inches
	Length	260 mm	10.24 inches
	Width	168 mm	6.61 inches
	Weight	24 Kg	53.04 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	86.0 Ah
	10 hour rate	77.3 Ah
	5 hour rate	69.5 Ah
	1 hour rate	53.0 Ah
	15 min rate	30.8 Ah
	Internal Resistance	5.7 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%
Short Circuit Current 20 °C (68 °F)	Capacity after 6 months storage	86%
	2400	
Terminal	Standard	14mm 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	267	213	179	153	136	123	113	104	97	79.1	57.3	44.7	31.1	24.2
1.80	286	227	191	164	146	131	120	111	104	84.5	61.2	47.8	33.2	25.9
1.75	304	242	204	174	155	140	128	118	110	89.9	65.1	50.9	35.3	27.5
1.70	311	247	208	178	158	143	131	121	113	91.9	66.6	52.0	36.1	28.1
1.67	313	249	210	180	160	144	132	122	114	92.7	67.2	52.4	36.4	28.4
1.65	314	250	211	180	160	145	132	122	114	93.0	67.4	52.6	36.6	28.5
1.60	318	253	213	182	162	146	134	123	115	93.9	68.1	53.1	36.9	28.7

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	166	128	107.92	92.4	81.4	73.1	66.4	61.6	56.8	46.6	33.6	26.5	18.8	14.7	12.2	10.5	9.20	8.20	6.80	5.85	3.78
1.80	177	137	115	98.7	87.0	78.1	70.9	65.8	60.7	49.8	35.9	28.3	20.1	15.7	13.1	11.2	9.83	8.75	7.27	6.25	4.04
1.75	189	146	123	105	92.5	83.1	75.4	70.1	64.5	53.0	38.2	30.1	21.4	16.7	13.9	11.9	10.5	9.31	7.73	6.65	4.30
1.70	193	149	125	107	94.6	84.9	77.1	71.6	66.0	54.2	39.0	30.7	21.8	17.1	14.2	12.2	10.7	9.52	7.90	6.79	4.39
1.67	195	150	126	108	95.4	85.6	77.8	72.2	66.5	54.6	39.4	31.0	22.0	17.3	-	-	-	-	-	-	-
1.65	195	151	127	109	95.8	86.0	78.1	72.5	66.8	54.9	39.5	31.1	22.1	17.3	-	-	-	-	-	-	-
1.60	197	153	128	110	96.7	86.8	78.8	73.2	67.4	55.4	39.9	31.4	22.3	17.5	-	-	-	-	-	-	-

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ACCUMULATORI

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**UL Recognised
Component
MH28512**