

HZY12-18 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	17.4Ah (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 HZY12-18

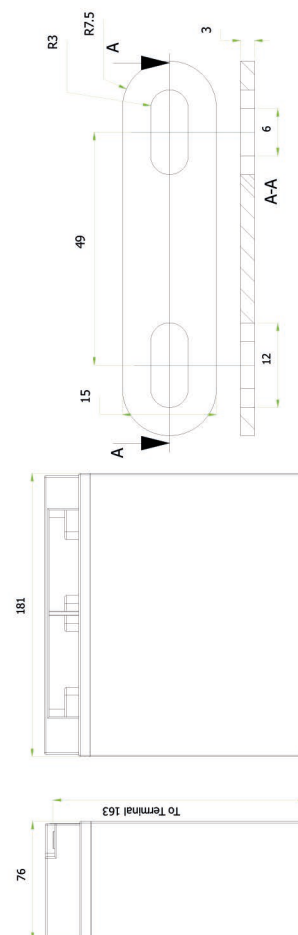
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		17.4 Ah	
Dimensions	Total Height	167 mm	6.57 inches
	(Inc. terminals)	- mm	n/a inches
	Length	181 mm	7.13 inches
	Width	76 mm	2.99 inches
Weight		5.5 Kg	12.16 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	17.4 Ah
	10 hour rate	16.1 Ah
	5 hour rate	14.4 Ah
	1 hour rate	11.0 Ah
	15 min rate	6.73 Ah
	Internal Resistance	16 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)	700	
Terminal	Standard	12mm Insert M5 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	71.7	48.5	39.7	33.8	29.4	26.3	23.7	21.5	19.9	16.3	12.3	9.9	7.22	5.67
1.80	76.6	51.8	42.4	36.1	31.4	28.0	25.3	23.0	21.3	17.4	13.1	10.6	7.71	6.06
1.75	81.5	55.1	45.1	38.4	33.4	29.8	26.9	24.4	22.6	18.5	14.0	11.3	8.20	6.45
1.70	83.2	56.3	46.1	39.2	34.2	30.5	27.5	25.0	23.1	18.9	14.3	11.5	8.38	6.59
1.67	84.0	56.8	46.5	39.6	34.5	30.8	27.7	25.2	23.3	19.1	14.4	11.6	8.46	6.64
1.65	84.3	57.0	46.7	39.7	34.6	30.9	27.8	25.3	23.4	19.2	14.4	11.6	8.49	6.67
1.60	85.1	57.6	47.1	40.1	34.9	31.2	28.1	25.5	23.6	19.3	14.6	11.8	8.57	6.74

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	42.9	29.4	23.6	19.8	17.4	15.6	14.1	13.0	11.9	9.68	6.91	5.46	3.86	3.03	2.53	2.16	1.91	1.71	1.42	1.20	0.76
1.80	45.8	31.5	25.2	21.2	18.6	16.6	15.0	13.8	12.7	10.34	7.38	5.83	4.13	3.24	2.70	2.31	2.04	1.82	1.51	1.29	0.82
1.75	48.8	33.5	26.9	22.5	19.7	17.7	16.0	14.7	13.5	11.0	7.85	6.20	4.39	3.45	2.87	2.46	2.17	1.94	1.61	1.37	0.87
1.70	49.8	34.2	27.4	23.0	20.2	18.1	16.4	15.1	13.8	11.2	8.02	6.34	4.49	3.52	2.93	2.51	2.22	1.98	1.64	1.40	0.89
1.67	50.3	34.5	27.7	23.2	20.3	18.2	16.5	15.2	14.0	11.3	8.09	6.39	4.53	3.55	-	-	-	-	-	-	-
1.65	50.5	34.6	27.8	23.3	20.4	18.3	16.6	15.2	14.0	11.4	8.12	6.42	4.54	3.57	-	-	-	-	-	-	-
1.60	51.0	35.0	28.1	23.6	20.6	18.5	16.7	15.4	14.2	11.5	8.20	6.48	4.59	3.60	-	-	-	-	-	-	-

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**UL Recognised
Component
MH28512**