

HZY12-120 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.

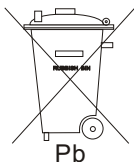
Innovative Features

- 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	119Ah (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.

Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZY12-120

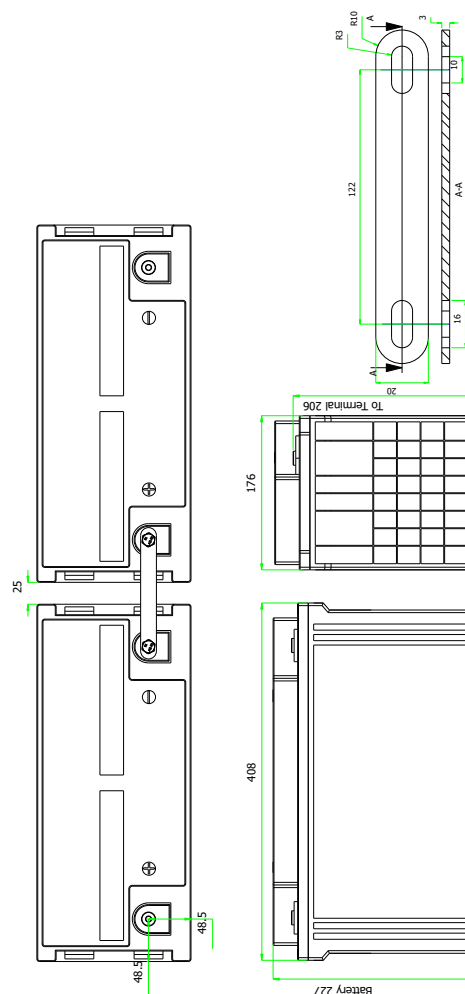
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		119 Ah	
Dimensions	Total Height	227 mm	8.94 inches
	(Inc. terminals)	- mm	n/a inches
	Length	408 mm	16.06 inches
	Width	176 mm	6.93 inches
	Weight	34.5 Kg	76.25 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	119.0 Ah
	10 hour rate	106.0 Ah
	5 hour rate	94.4 Ah
	1 hour rate	72.0 Ah
	15 min rate	43.8 Ah
	Internal Resistance	3.7 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%
	3300	
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	434	342	286	244	213	192	174	160	148	119	87.2	68.9	48.2	37.3
1.80	464	365	305	261	228	205	186	171	158	127	93.2	73.6	51.5	39.9
1.75	494	388	325	277	242	218	198	182	168	136	99.1	78.3	54.8	42.4
1.70	504	397	332	283	248	223	202	186	172	138	101	80.0	56.0	43.3
1.67	509	400	335	286	250	225	204	188	173	140	102	80.7	56.5	43.7
1.65	511	402	336	287	251	226	205	188	174	140	103	81.0	56.7	43.9
1.60	516	406	339	290	253	228	207	190	176	142	104	81.8	57.2	44.3

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	247	188	154	132	116	103	92.6	85.0	78.3	63.4	46.5	36.8	25.9	20.1	16.6	14.3	12.5	11.2	9.31	7.98	5.24
1.80	264	200	164	141	124	110	99	90.8	83.6	67.7	49.7	39.3	27.7	21.5	17.8	15.2	13.4	11.9	9.94	8.53	5.59
1.75	281	213	175	150	132	117	105	96.6	88.9	72.0	52.9	41.8	29.4	22.9	18.9	16.2	14.2	12.7	10.6	9.07	5.95
1.70	287	218	179	153	135	120	108	98.7	90.9	73.6	54.0	42.7	30.1	23.4	19.3	16.6	14.5	13.0	10.8	9.27	6.08
1.67	289	220	180	155	136	121	109	99.6	91.7	74.2	54.5	43.1	30.3	23.6	-	-	-	-	-	-	-
1.65	290	221	181	155	137	121	109	100	92.0	74.5	54.7	43.3	30.5	23.7	-	-	-	-	-	-	-
1.60	293	223	183	157	138	122	110	101	92.9	75.2	55.2	43.7	30.8	23.9	-	-	-	-	-	-	-



UL Recognised
Component
MH28512