

HZY12-7.5 Valve Regulated Lead Acid battery.
5 year design life for stand by power applications.
12 Volts 7.5 Ah (C20)

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 - VO 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	7.5Ah (C20 @ 20 °C)
Design Life	5 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 Cycling 2.35 @25 °C Max. 2.4 VPC 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

Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZY12-7.5



Specifications

Nominal Voltage		12V	
Nominal Capacity		7.5 Ah	
Dimensions	Total Height (Inc. terminals)	96 mm (101) mm	3.78 inches n/a inches
	Length	151 mm	5.94 inches
	Width	65 mm	2.56 inches
	Weight	2.5 Kg	5.53 lbs

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	7.9 Ah
	10 hour rate	6.6 Ah
	5 hour rate	5.9 Ah
	1 hour rate	4.3 Ah
	15 min rate	2.9 Ah
	Internal Resistance Impedance	28 mOhms 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)	275	
Terminal	Standard	Faston T1
	Optional	Faston T2
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 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	26.9	20.3	16.7	14.4	12.4	10.9	9.81	8.93	8.24	6.64	5.21	4.18	2.92	2.3
1.80	31.1	24.0	19.9	17.3	14.9	13.2	11.9	10.8	10.0	8.15	6.39	5.13	3.58	2.79
1.75	33.2	25.0	20.5	17.7	15.2	13.4	12.1	11.0	10.1	8.16	6.40	5.13	3.58	2.79
1.70	35.3	25.9	21.1	18.1	15.5	13.6	12.2	11.1	10.2	8.18	6.40	5.13	3.59	2.79
1.65	36.3	26.4	21.3	18.2	15.5	13.6	12.2	11.1	10.2	8.18	6.40	-	-	-
1.60	38.4	27.3	21.8	18.5	15.7	13.7	12.3	11.2	10.3	8.18	6.41	-	-	-

Constant Amps Discharge - Amps @20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	14.5	10.9	8.90	7.66	6.55	5.76	5.17	4.69	4.32	3.46	2.70	2.16	1.50	1.16	0.96	0.64	0.53	0.46	0.33
1.80	17.0	13.1	10.8	9.31	7.98	7.04	6.32	5.74	5.29	4.28	3.33	2.66	1.84	1.43	1.17	0.77	0.64	0.55	0.37
1.75	18.3	13.7	11.2	9.60	8.20	7.20	6.45	5.85	5.37	4.30	3.35	2.67	1.85	1.43	1.18	0.78	0.65	0.56	0.39
1.70	19.6	14.3	11.6	9.89	8.41	7.36	6.57	5.95	5.45	4.32	3.36	2.67	1.85	1.44	1.18	0.79	0.66	0.57	0.40
1.65	20.3	14.6	11.7	9.98	8.45	7.39	6.59	5.97	5.47	4.33	3.36	-	-	-	-	-	-	-	-
1.60	21.6	15.2	12.0	10.2	8.57	7.45	6.63	5.99	5.49	4.34	3.37	-	-	-	-	-	-	-	-

Ampere Hour @20 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	4.31	4.49	4.65	4.79	5.13	5.35	5.54	6.60
1.80	5.32	5.53	5.72	5.86	6.20	6.41	6.58	7.48
1.75	5.33	5.54	5.73	5.89	6.25	6.49	6.68	7.70
1.70	5.34	5.54	5.74	5.91	6.30	6.6	6.79	7.92



UL Recognised
Component
MH28512

