

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



АГАРА
ЭНЕРГИЯ

ООО "АГАРА ЭНЕРГИЯ"
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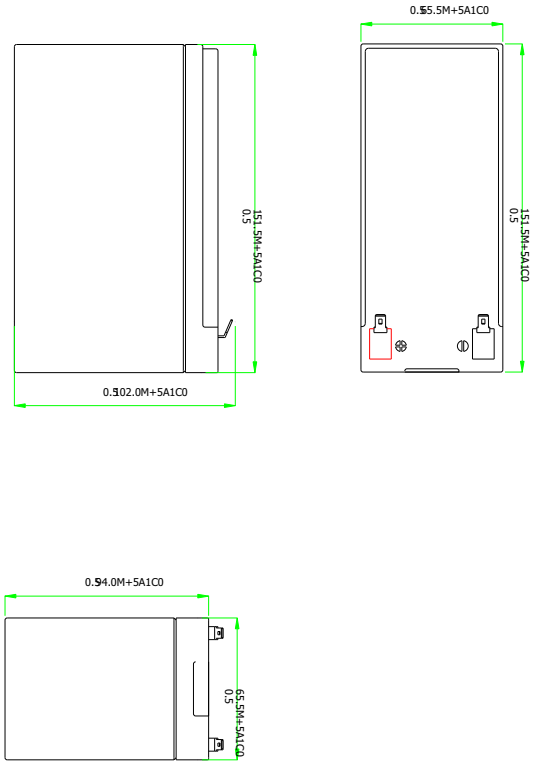
www.agara-e.ru
www.akbe.ru
www.ibpc.ru
www.vaat.ru

Specifications

Nominal Vdrtage		12V	
Nominal Capacity		12 Ah	
Dimensions	Total Height (Inc. terminals)	96 mm (101) mm	3.78 inches n/a inches
	Length	150 mm	5.91 inches
	Width	97 mm	3.82 inches
	Weight	4 Kg	8.84 lbs

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	13.1 Ah
	10 hour rate	11.2 Ah
	5 hour rate	9.8 Ah
	1 hour rate	7.3 Ah
	15 min rate	4.8 Ah
	Internal Resistance	20 mOhms
Capacity correction for Temperature Variations (C ₂₀)	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)	500	
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	46.5	35.0	27.9	23.7	20.5	18.1	16.2	14.7	13.7	11.3	8.52	6.86	4.86	3.8
1.80	53.7	41.4	33.3	28.4	24.7	21.9	19.6	17.9	16.6	13.8	10.4	8.42	5.96	4.63
1.75	57.3	43.0	34.3	29.1	25.2	22.2	19.9	18.2	16.8	13.9	10.4	8.42	5.96	4.63
1.70	60.9	44.6	35.2	29.8	25.7	22.6	20.2	18.4	17.0	13.9	10.5	8.42	5.96	4.63
1.65	62.7	45.4	35.6	30.0	25.7	22.6	20.2	18.4	17.0	13.9	10.5	-	-	-
1.60	66.4	47.1	36.4	30.4	26.1	22.8	20.2	18.4	17.0	13.9	10.5	-	-	-

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	25.0	18.7	14.9	12.6	10.9	9.56	8.52	7.75	7.16	5.88	4.41	3.54	2.49	1.93	1.60	1.09	0.91	0.79	0.55
1.80	29.3	22.5	18.0	15.3	13.2	11.7	10.4	9.49	8.77	7.26	5.44	4.37	3.07	2.37	1.95	1.31	1.09	0.94	0.62
1.75	31.6	23.6	18.7	15.8	13.6	11.9	10.6	9.66	8.91	7.30	5.47	4.38	3.08	2.38	1.96	1.33	1.11	0.96	0.64
1.70	33.9	24.7	19.4	16.3	14.0	12.2	10.8	9.83	9.04	7.34	5.49	4.38	3.08	2.39	1.97	1.34	1.12	0.97	0.66
1.65	35.1	25.2	19.6	16.4	14	12.2	10.9	9.85	9.06	7.35	5.49	-	-	-	-	-	-	-	-
1.60	37.3	26.2	20.1	16.7	14.2	12.4	10.9	9.89	9.10	7.36	5.50	-	-	-	-	-	-	-	-

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	7.08	7.48	7.73	7.98	8.69	9.12	9.51	10.9
1.80	8.74	9.21	9.50	9.77	10.5	10.9	11.3	12.4
1.75	8.75	9.23	9.52	9.81	10.6	11.1	11.5	12.8
1.70	8.77	9.24	9.54	9.85	10.7	11.2	11.7	13.1



UL Recognised
Component
MH28512

