

HSC12-7 Valve Regulated Lead Acid battery.
5 year design life for stand by power applications.

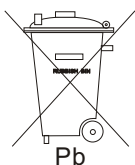
Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Battery 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



Specifications

Nominal Voltage	12 Volts
Nominal Capacity	7.0 Ah (C20 @ 20 °C)
Design Life	5 Years Max.
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	High purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycling: Not suitable. Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Battery grade purity
Venting Valve	EPDM Rubber 2 - 3 psi (14 - 21 KPa) release pressure. Resealing at 2 psi (14 KPa)
Terminal	Faston type. Epoxy sealed by extended mechanical paths



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

Website: www.hazebattery.com
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Sealed Lead Acid 12 Volt Bloc AGM Range
PRODUCT SHEET HSC12-7

**12V
AGM**

Specifications

Nominal Voltage		12V	
Nominal Capacity		7 Ah	
Dimensions	Total Height	94 mm	3.70 inches
	(Inc. terminals)	99 mm	3.90 inches
	Length	151 mm	5.94 inches
	Width	65 mm	2.56 inches
	Weight	2.00 Kg	4.20 lbs
	Box Quantity	8	

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	7.0 Ah
	10 hour rate	6.8 Ah
	5 hour rate	6.1 Ah
	1 hour rate	4.5 Ah
	15 min rate	2.9 Ah
	Internal Resistance	25.5 mOhms
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)		
Terminal	Standard	Faston T1
	Optional Layout Ref.	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	34.3	22.9	17.8	14.7	12.5	11.0	9.9	9.0	8.4	7.04	5.48	4.50	3.25	2.57
1.80	36.6	24.5	19.0	15.7	13.3	11.8	10.6	9.7	9.0	7.52	5.86	4.81	3.48	2.75
1.75	39.0	26.0	20.3	16.7	14.2	12.5	11.3	10.3	9.58	8.00	6.23	5.12	3.70	2.93
1.70	39.8	26.6	20.7	17.0	14.5	12.8	11.5	10.5	9.79	8.17	6.37	5.23	3.78	2.99
1.65	40.4	27.0	21.0	17.3	14.7	13.0	11.6	10.6	9.91	8.28	6.45	5.29	3.83	3.03
1.60	40.7	27.2	21.2	17.4	14.8	13.1	11.8	10.7	10.01	8.36	6.51	5.35	3.87	3.06

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	21.8	13.2	9.9	8.2	7.14	6.38	5.73	5.18	4.78	3.89	2.89	2.29	1.62	1.27	1.05	0.71	0.58	0.49	0.30
1.80	23.2	14.1	10.6	8.8	7.63	6.81	6.12	5.54	5.11	4.15	3.08	2.44	1.73	1.35	1.13	0.76	0.62	0.53	0.32
1.75	24.7	15.0	11.3	9.3	8.12	7.24	6.51	5.89	5.44	4.42	3.28	2.60	1.84	1.44	1.20	0.81	0.66	0.56	0.34
1.70	25.3	15.3	11.5	9.5	8.3	7.40	6.65	6.02	5.56	4.51	3.35	2.66	1.88	1.47	1.22	0.83	0.68	0.57	0.35
1.65	25.6	15.5	11.7	9.6	8.4	7.50	6.74	6.10	5.63	4.57	3.40	2.69	1.90	1.49	-	-	-	-	-
1.60	25.8	15.6	11.8	9.7	8.5	7.57	6.80	6.16	5.68	4.62	3.43	2.72	1.92	1.50	-	-	-	-	-

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	4.57	4.85	5.07	5.27	5.70	5.84	5.92	5.99
1.80	4.88	5.18	5.41	5.63	6.09	6.24	6.32	6.39
1.75	5.20	5.51	5.76	5.99	6.48	6.64	6.73	6.80
1.70	5.31	5.63	5.88	6.12	6.62	6.79	6.87	6.95
1.65	5.38	5.70	5.96	-	-	-	-	-
1.60	5.43	5.76	6.02	-	-	-	-	-