



Haze Battery Company Ltd



**Sealed Lead Acid AGM
6 & 12 Volt Monobloc Range
0.8 AH to 100AH**

Applications

- Float service
- Uninterruptible Power Supplies
- Medical
- Telecommunications
- Switch Gear
- Photovoltaic
- Solar
- Wind
- Control Systems
- Cellular Radio Stations
- Cathodic Protection
- Navigation Aids
- Marine equipment
- Electric power systems

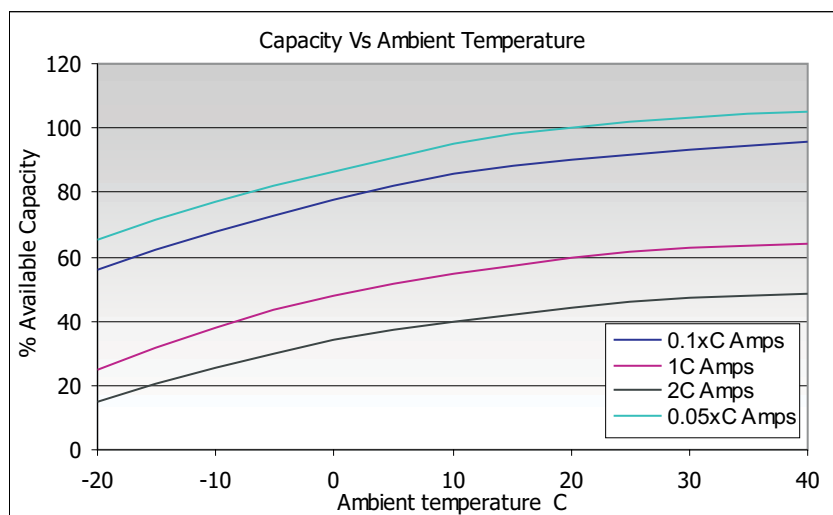
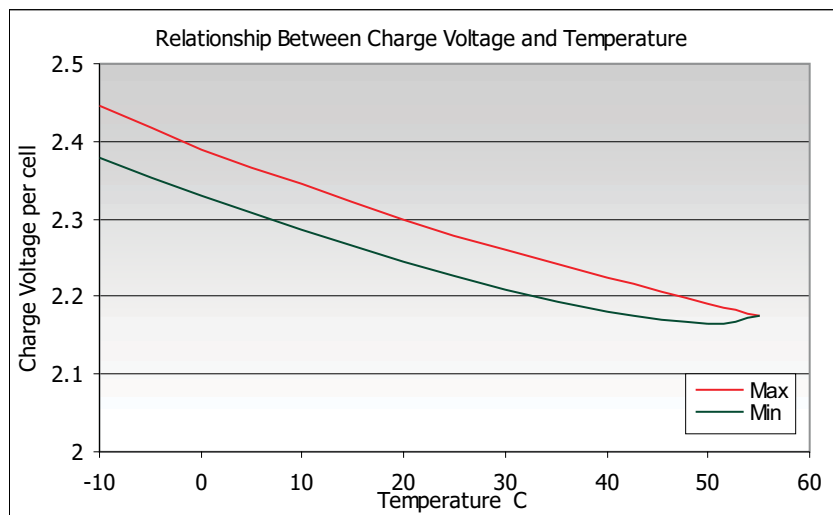
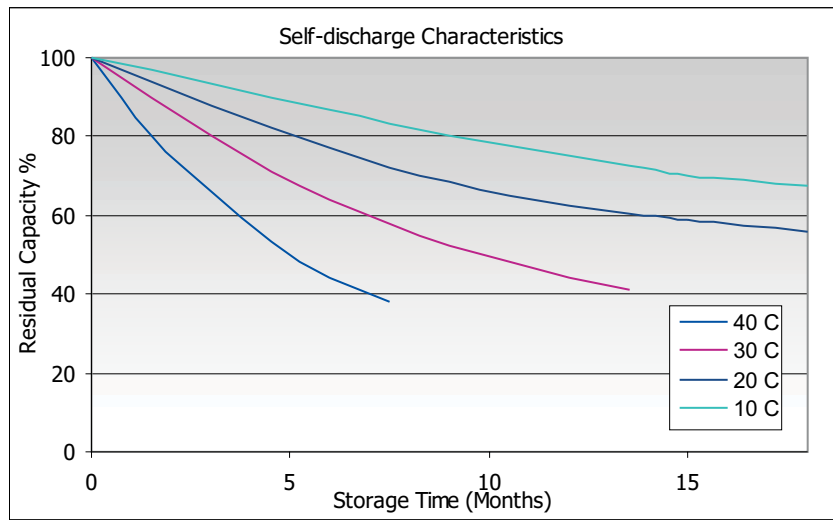
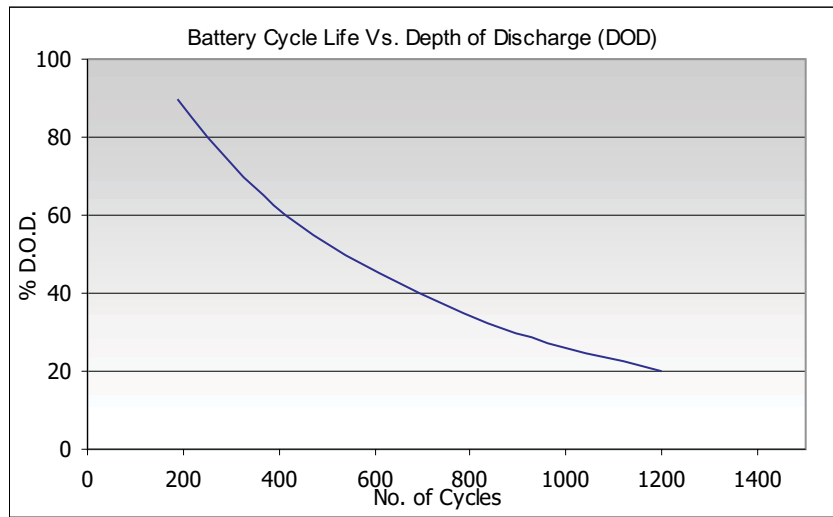
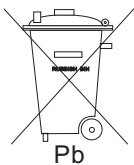
Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Increased durability and deep cycle ability for heavy demand applications
- Fully tank formed plates
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated – Max internal pressure 4 psi
- Multi-position usage
- ABS Case and cover - V0 on request
- Low self discharge
- FAA and IATA approved as non -hazardous

Specifications

Nominal Voltage	6 & 12 Volts
Operating Temperature	-10 °C to 45 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	Very high purity lead
Case and cover	ABS
Charge Voltage	Float 2.25 – 2.30 VPC @20 °C Max. 2.4 VPC
Electrolyte	Sulphuric acid – Analytical grade purity
Venting Valve	EPDM Rubber – 1.5 to 4 psi release pressure
Terminal	Insert type – Epoxy sealed by extended mechanical paths
Cables	Insulated cables supplied on request.

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





Specification Data

Battery Model	Nominal Voltage	Nominal Capacity 20 hr Rate	10 hr 1.75 vpc	5 hr 1.75 vpc	3 hr 1.75 vpc	1 hr 1.75 vpc	Max Charge Amps	Max Discharge Amps	Internal Resistance Mili Ohms
HStd06-1.	6	1	0.9	0.8	0.8	0.6	0.5	30	80
HStd06-1.3	6	1.3	1.2	1.1	1.1	0.9	0.7	36	70
HStd06-3.2	6	3.2	3.0	2.7	2.4	1.8	1.6	70	30
HStd06-4	6	4	3.7	3.3	3.2	2.7	2.0	75	22
HStd06-4.5	6	4.5	3.9	3.4	3.2	2.6	2.3	75	20
HStd06-5.	6	5	4.5	4.1	3.9	3.2	2.5	80	16
HStd06-4.5sp	6	4.5	3.8	3.4	3.0	2.3	2.3	75	18
HStd06-7.2	6	7.2	6.5	5.8	5.3	4.5	3.6	105	13
HStd06-8.	6	8	7.3	6.6	6.2	5.2	4.0	110	12
HStd06-10.	6	10	9.4	8.5	8.1	6.8	5.0	120	10
HStd06-12.	6	12	10.8	9.8	9.3	8.0	6.0	180	10
HStd06-14.	6	14	12.9	11.6	11.0	9.3	7.0	200	11
HStd12-0.8.	12	0.8	0.7	0.6	0.6	0.5	0.4	25	180
HStd12-1.3.	12	1.3	1.2	1.1	1.1	0.9	0.7	36	130
HStd12-2.2.	12	2.2	2.0	1.8	1.7	1.5	1.1	60	90
HStd12-3.3.	12	3.3	3.1	2.8	2.6	2.2	1.7	60	60
HStd12-4.	12	4	3.7	3.4	3.2	2.7	2.0	70	50
HStd12-5.	12	5	4.4	3.9	3.6	3.0	2.5	75	40
HStd12-7.	12	7	6.3	5.6	5.1	4.4	3.5	105	28
HStd12-7.5.	12	7.5	6.8	6.0	5.5	4.7	3.8	110	25
HStd12-9.	12	9	7.8	6.8	6.2	5.3	4.5	125	23
HStd12-10.	12	10	9.0	8.1	7.7	6.6	5.0	150	22
HStd12-12.	12	12	10.8	9.8	9.3	8.0	6.0	180	20
HStd12-15.	12	15	13.5	12.3	11.6	10.0	7.5	225	17
HStd12-18.	12	18	16.7	15.3	13.8	11.0	9.0	250	14
HStd12-20.	12	20	18.4	16.8	15.2	12.1	10.0	260	13
HStd12-24.	12	24	22.3	21.2	19.3	16.3	12.0	280	12
HStd12-26.	12	26	24.0	22.8	20.7	17.5	13.0	288	12
HStd12-33.	12	33	30.2	28.0	25.0	19.8	16.5	330	9
HStd12-35.	12	35	31.7	29.4	26.3	20.8	17.5	350	9
HStd12-40.	12	40	36.5	32.0	29.7	25.2	20.0	450	6
HStd12-44.	12	44	40.5	35.5	33.0	28.0	22.0	500	6
HStd12-65.	12	65	58.0	50.5	47.5	35.9	32.5	700	5.5
HStd12-70.	12	70	63.0	55.4	51.6	39.0	35.0	800	5.5
HStd12-100.	12	100	90.0	78.0	71.0	55.0	50.0	900	3.9



Watts Per Cell Discharge Rate

Battery Model	Discharge Time (minutes)												
	VPC	5	10	15	20	25	30	45	60	90	120	180	240
HStd06-5.	1.75	32.7	21.8	15.5	12.4	10.8	9.2	6.7	5.5	4.0	3.3	2.3	1.8
HStd06-7.2	1.75	60.3	38.6	26.5	21.4	17.7	16.9	10.6	8.4	6.3	5.1	3.8	2.9
HStd06-10	1.75	63.8	43.5	32.8	25.2	21.7	20.8	15.9	12.7	8.8	7.1	4.8	4.3
HStd06-12	1.75	76.9	52.5	39.5	30.3	26.1	23.3	19.2	15.3	10.7	8.5	5.8	5.1
HStd06-14	1.75	89.2	60.9	45.8	35.1	30.3	27.0	22.3	17.7	12.4	9.9	6.7	6.0
HStd12-4	1.75	26.2	17.4	12.4	9.9	8.6	7.4	5.4	4.4	3.2	2.6	1.8	1.5
HStd12-5	1.75	32.7	21.8	15.5	12.4	10.8	9.2	6.7	5.5	4.0	3.3	2.3	1.8
HStd12-7	1.75	58.3	37.3	25.7	20.7	17.1	16.4	10.2	8.2	6.1	4.9	3.7	2.9
HStd12-7.5	1.75	62.7	40.1	27.6	22.3	18.4	17.6	11.0	8.8	6.6	5.3	4.0	3.1
	1.67	64.9	41.5	28.6	23.1	19.0	18.2	11.4	9.1	6.8	5.5	4.1	3.2
HStd12-9	1.75	57.4	39.2	29.5	22.7	19.5	18.7	14.3	11.4	8.0	6.4	4.3	3.8
HStd12-10	1.75	63.8	43.5	32.8	25.2	21.7	20.8	15.9	12.7	8.8	7.1	4.8	4.3
HStd12-12	1.75	79.0	52.5	39.2	30.1	25.9	23.1	19.0	15.3	10.6	8.5	5.8	5.1
	1.67	89.4	56.7	43.1	32.4	27.6	24.0	20.1	15.9	10.9	8.7	5.9	5.2
HStd12-15	1.75	96.0	63.8	52.3	42.0	33.3	30.4	25.1	19.5	14.0	12.0	7.1	5.9
HStd12-18	1.75	115.0	76.4	62.6	50.3	39.9	36.4	30.0	23.3	16.8	14.4	8.5	7.1
	1.67	130.0	82.6	68.8	54.2	42.6	38.9	31.7	24.2	17.4	14.8	8.7	7.2
HStd12-20	1.75	127.0	84.0	68.9	55.3	43.9	40.0	33.0	25.6	18.5	15.8	9.4	7.8
HStd12-24	1.75	169.0	117.0	91.2	79.9	66.6	54.2	37.0	31.9	21.5	20.2	13.6	10.1
HStd12-26	1.75	183.0	127.0	98.6	86.4	72.0	58.6	40.0	34.5	23.2	21.8	14.7	10.9
	1.67	207.0	137.0	108.0	93.2	76.9	62.6	42.3	35.9	24.1	22.4	15.0	11.1
HStd12-33	1.75	144.8	111.0	88.8	77.7	64.9	58.9	43.4	34.9	25.0	20.3	14.5	11.5
HStd12-35	1.75	150.0	115.0	92.0	80.5	67.2	61.0	45.0	36.2	25.9	21.0	15.0	11.9
	1.67	165.0	124.2	99.4	87.0	71.8	64.7	46.8	37.3	26.9	21.6	15.4	12.3
HStd12-40	1.75	212.0	151.0	121.0	101.0	87.0	76.6	55.1	41.4	31.2	27.2	18.1	15.0
HStd12-44	1.75	235.0	168.0	134.0	112.0	96.7	85.1	61.2	46.0	34.7	30.2	20.1	16.7
	1.67	270.0	179.0	145.0	122.0	102.0	89.2	64.0	48.0	35.5	31.0	20.9	17.0
HStd12-65	1.75	294.5	220.0	176.7	154.9	129.4	114.7	87.0	72.7	52.4	42.6	30.4	24.1
HStd12-70	1.75	315.0	238.0	191.0	167.1	139.4	124.0	94.1	78.6	56.7	46.0	32.9	26.0
HStd12-100	1.75	450.0	341.0	272.0	238.0	198.7	177.0	134.0	112.0	80.9	65.7	47.0	37.1
	1.67	495.0	368.0	293.8	257.3	212.0	184.1	139.4	115.4	83.3	67.7	48.4	38.2

Battery Life

Battery Life depends on a number of key factors. These include:

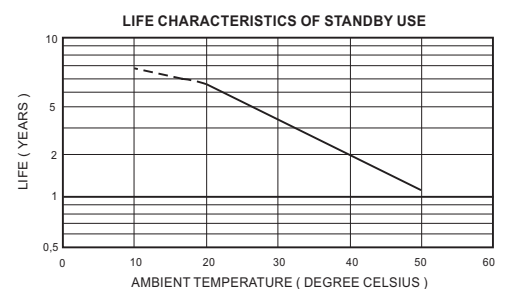
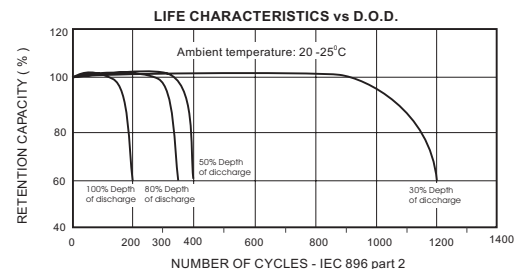
- * Operating temperature of the battery
- * Method of charging utilized
- * Actual use of the product i.e. Float or cycle life
- * Correct sizing etc.

Float Service

The float service is effected by the factors listed above and the number of and depth of discharge the battery suffers during its life time. Basically the more discharges suffered and the deeper the discharges, the shorter battery life.

Cycle Life

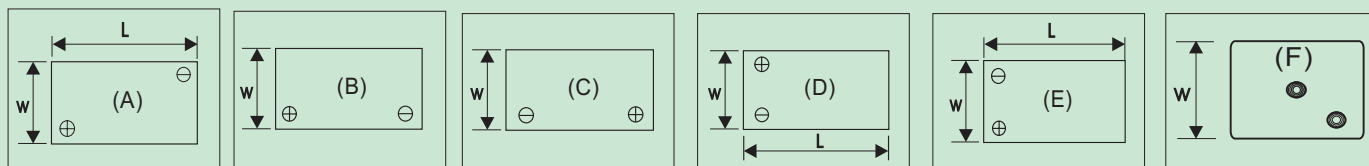
Giving due consideration to the above key factors, the actual life of a battery in cycle service is dependent on the depth of discharge of each cycle. The greater the depth of discharge of each cycle the lesser the number of cycles available from the battery.



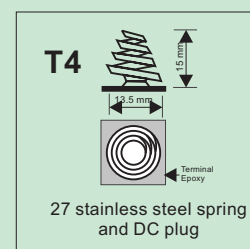
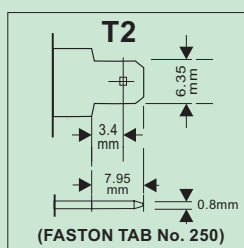
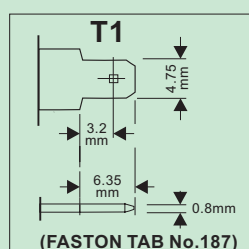
Battery Model	Length L	Width W	Height H	incl Tabs h	Weight kg	Terminal Type	Terminal Position	Pcs Per Box
HStd06-1.	51	42	51	56	0.23	T1	B	20
HStd06-1.3	98	25	52	56	0.27	T1	B	40
HStd06-3.2	134	34	60	66	0.73	T1	B	20
HStd06-4	70	48	101	106	0.85	T1	A	20
HStd06-4.5	70	48	101	106	0.86	T1	A	20
HStd06-5.	70	48	101	106	0.90	T1	A	20
HStd06-4.5sp	66	66	97	115	1.00	T5	F	20
HStd06-7.2	150	34	94	100	1.25	T1	B	10
HStd06-8.	151	50	93.5	99.5	1.73	T1	B	10
HStd06-10.	151	50	93.5	99.5	1.90	T1	B	10
HStd06-12.	151	50	93.5	99.5	2.00	T2	B	10
HStd06-14.	108	68.5	140	140	2.20	T2	B	10
HStd12-0.8.	96	25	62	62	0.53	T1	Cable	20
HStd12-1.3.	96.5	45	53	59	0.59	T1	E	20
HStd12-2.2.	177.5	34	60	66	0.83	T1	B	20
HStd12-3.3.	133.5	67	61	67	1.29	T1	D	10
HStd12-4.	90	70	101	107	1.50	T1	D	10
HStd12-5.	90	70	101	107	1.60	T1	D	10
HStd12-7.	150	64.5	96	101	2.40	T1	D	8
HStd12-7.5.	150	64.5	96	101	2.50	T1	D	8
HStd12-9.	150	64.5	96	101	2.60	T2	D	8
HStd12-10.	151	65	111	116	3.80	T2	D	4
HStd12-12.	151	97.5	96	102	3.95	T2	D	4
HStd12-15.	151	97.5	96	102	4.20	T2	D	4
HStd12-18.	180	76	167	167	5.96	T3*	C	2
HStd12-20.	180	76	167	167	6.20	T3*	C	2
HStd12-24.	165	174.5	125	125	8.40	T3*	C	1
HStd12-26.	165	174.5	125	125	8.52	T3*	C	1
HStd12-33.	193.5	130	166.5	166.5	12.0	T4	C	1
HStd12-35.	193.5	130	166.5	166.5	12.2	T4	C	1
HStd12-40.	196	164	170.5	170.5	13.8	T3	C	1
HStd12-44.	196	164	170.5	170.5	14.0	T3	C	1
HStd12-65.	350	166	174	174	23.0	T4*	C	1
HStd12-70.	350	166	174	174	24.0	T4*	C	1
HStd12-100.	305	168	208	210	29.0	T4	B	1

* Available with Flag terminals if required.

Terminal Layout details



Terminal details





WorldWide



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Sealed Lead Acid Product Range

- 6 & 12 Volt AGM 1.3 to 230AH
- 6 & 12 Volt AGM & Gel 15 to 230AH
- 12 Volt High Rate UPS AGM
- 2 Volt AGM & Gel 50 to 3850AH

Authorised Representative