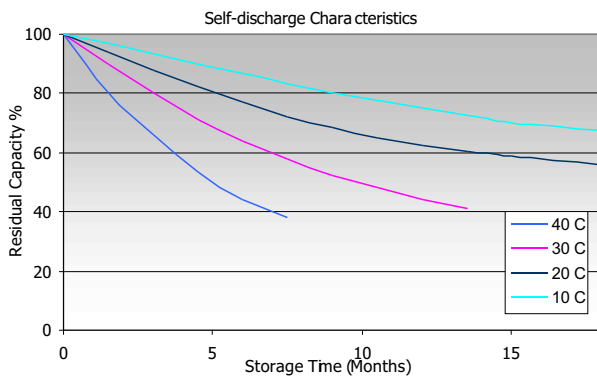
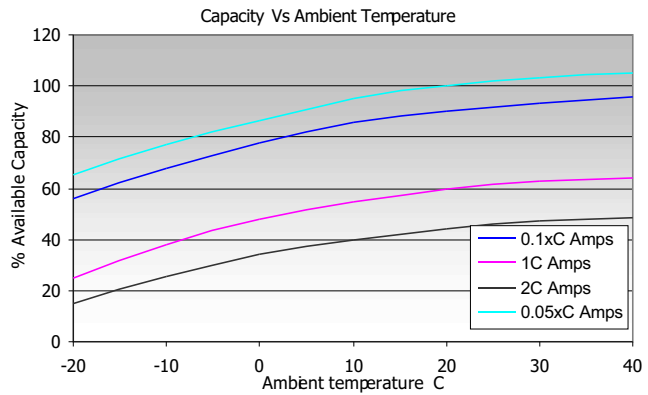
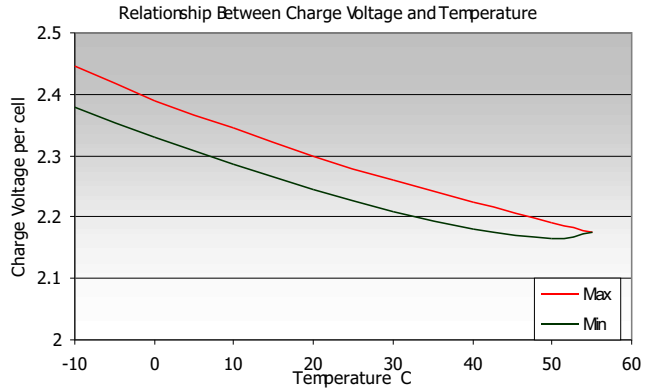




Haze Battery Company Ltd



**Sealed Lead Acid 6 & 12 Volt  
Monobloc  
5 Year Range**



## CHARGING CHARACTERISTICS

**Floating** - The optimum float voltage for a battery is temperature dependant, at 15 - 24°C the recommended value is 2.27 - 2.30V. It is recommended that battery installation sites are temperature controlled, however float voltage can be increased or decreased to compensate for temperature variations. Adjustment is calculated at +/- 3 mV per degree C.

Operating Temperature	Recommended Applied Float Voltage VPC
0-9	2.33 - 2.35
10-14	2.30 - 2.33
15-19	2.27 - 2.30
20-24	2.27 - 2.30
25-29	2.25 - 2.27
30-34	2.23 - 2.25
35-40	2.21 - 2.23

The most suitable charging method for battery life and performance is the constant voltage method with a limited initial current, usually limited to a maximum of  $C_{20}/4$ .

### 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
- Low impurity 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.



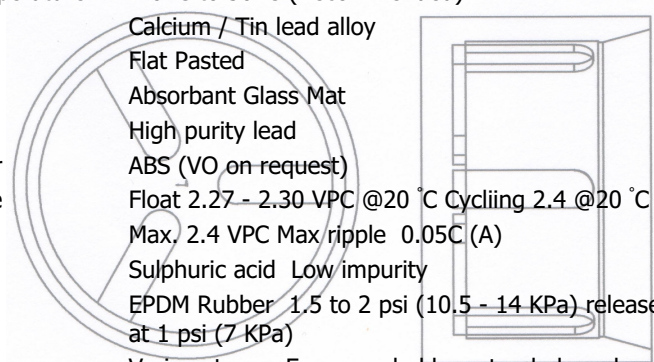
### Applications

- 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

Discharge Time	Capacity temperature correction Factor to be applied to Data at 20 Degrees C								
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C
5 minutes to 59 minutes	0.8	0.86	0.91	0.96	1	1.037	1.063	1.085	1.1
1 Hour to 100 Hours	0.86	0.9	0.93	0.97	1	1.028	1.05	1.063	1.07

### Specifications

- Nominal Voltage 4, 6 & 12 Volts
- Design Life 5 Years
- Operating Temperature -20 °C to 50 °C (Recommended)
- 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 2.27 - 2.30 VPC @20 °C Cycling 2.4 @20 °C Max. 2.4 VPC Max ripple 0.05C (A)
- Electrolyte Sulphuric acid Low impurity
- Venting Valve EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
- Terminal Various types Epoxy sealed by extended mechanical paths
- Torque setting The recommended torque value for all screw types is 5-7 Nm
- Cables Insulated cables / connectors supplied on request.



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

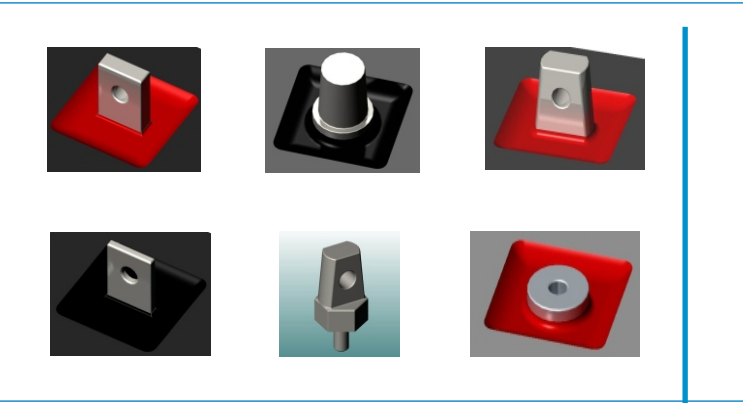
Battery Model	Discharge Time (minutes) (Table shows Amps)														
	VPC	5	10	15	20	25	30	35	40	45	60	90	120	180	240
HZS04-4.5	1.75	15.5	9.4	7.23	5.97	5.12	4.50	4.02	3.61	3.28	2.56	1.84	1.52	1.09	0.85
	1.70	15.9	9.7	7.36	6.06	5.18	4.54	4.07	3.64	3.31	2.60	1.87	1.55	1.11	0.87
	1.65	16.3	10.0	7.48	6.14	5.26	4.61	4.12	3.70	3.37	2.64	1.89	1.56	1.12	0.87
HZS04-9	1.75	34.5	22.2	17.0	14.1	12.1	10.6	9.47	8.49	7.71	6.02	4.32	3.56	2.57	2.00
	1.70	35.5	22.9	17.3	14.3	12.2	10.7	9.6	8.57	7.78	6.11	4.40	3.65	2.61	2.04
	1.65	36.5	23.6	17.6	14.4	12.4	10.8	9.7	8.70	7.93	6.22	4.45	3.68	2.64	2.05
HZS6-4.5	1.75	15.5	9.4	7.23	5.97	5.12	4.50	4.02	3.61	3.28	2.56	1.84	1.52	1.09	0.85
	1.70	15.9	9.7	7.36	6.06	5.18	4.54	4.07	3.64	3.31	2.60	1.87	1.55	1.11	0.87
	1.65	16.3	10.0	7.48	6.14	5.26	4.61	4.12	3.70	3.37	2.64	1.89	1.56	1.12	0.87
HZS06-7.2	1.75	27.3	16.6	12.8	10.5	9.04	7.94	7.10	6.37	5.78	4.52	3.24	2.67	1.93	1.50
	1.70	28.1	17.2	13.0	10.7	9.14	8.02	7.18	6.43	5.84	4.58	3.30	2.73	1.96	1.53
	1.65	28.8	17.7	13.2	10.8	9.27	8.13	7.27	6.53	5.94	4.67	3.34	2.76	1.98	1.54
HZS06-10	1.75	34.5	22.2	17.0	14.1	12.1	10.6	9.47	8.49	7.71	6.02	4.32	3.56	2.57	2.00
	1.70	35.5	22.9	17.3	14.3	12.2	10.7	9.6	8.57	7.78	6.11	4.40	3.65	2.61	2.04
	1.65	36.5	23.6	17.6	14.4	12.4	10.8	9.7	8.70	7.93	6.22	4.45	3.68	2.64	2.05
HZS06-12	1.75	43.6	26.6	20.4	16.9	14.5	12.7	11.4	10.2	9.3	7.22	5.19	4.28	3.08	2.40
	1.70	44.9	27.5	20.8	17.1	14.6	12.8	11.5	10.3	9.3	7.33	5.28	4.37	3.13	2.45
	1.65	46.2	28.3	21.1	17.3	14.8	13.0	11.6	10.4	9.5	7.47	5.34	4.42	3.16	2.47
HZS06-14 TOY	1.75	47.0	32.7	25.7	20.8	17.0	14.6	12.8	11.6	10.5	8.33	6.15	4.95	3.58	2.76
	1.70	47.9	33.3	26.2	21.3	17.5	14.9	13.1	11.8	10.7	8.48	6.26	5.03	3.63	2.80
	1.65	48.8	33.9	26.5	21.6	17.7	15.1	13.3	11.9	10.8	8.58	6.33	5.08	3.67	2.82
HZS06-20	1.75	70.0	45.0	34.5	28.5	24.1	20.8	18.4	16.4	15.0	12.3	9.08	7.07	4.84	3.74
	1.70	75.0	47.0	35.5	29.0	24.4	21.1	18.5	16.6	15.1	12.5	9.19	7.16	4.91	3.80
	1.65	78.0	48.5	36.0	29.5	24.8	21.4	18.7	16.8	15.3	12.5	9.29	7.26	4.99	3.85
HZS12-2.2	1.75	8.00	4.88	3.74	3.09	2.65	2.33	2.08	1.87	1.70	1.32	0.95	0.78	0.56	0.44
	1.70	8.23	5.04	3.81	3.14	2.68	2.35	2.11	1.89	1.71	1.34	0.97	0.80	0.57	0.45
	1.65	8.46	5.18	3.87	3.18	2.72	2.39	2.13	1.91	1.74	1.37	0.98	0.81	0.58	0.45
HZS12-2.9	1.75	10.5	6.43	4.93	4.08	3.49	3.07	2.74	2.46	2.24	1.75	1.25	1.03	0.74	0.58
	1.70	10.9	6.64	5.02	4.13	3.53	3.10	2.78	2.49	2.26	1.77	1.27	1.06	0.76	0.59
	1.65	11.2	6.83	5.10	4.19	3.59	3.15	2.81	2.52	2.30	1.80	1.29	1.07	0.76	0.60
HZS12-3.3	1.75	12.0	7.32	5.61	4.64	3.98	3.49	3.12	2.80	2.54	1.99	1.43	1.18	0.85	0.66
	1.70	12.3	7.56	5.71	4.70	4.02	3.53	3.16	2.83	2.57	2.02	1.45	1.20	0.86	0.67
	1.65	12.7	7.77	5.81	4.77	4.08	3.58	3.20	2.87	2.62	2.05	1.47	1.22	0.87	0.68
HZS12-5	1.75	16.6	13.9	11.19	9.00	7.60	6.66	5.93	5.39	4.92	3.88	2.81	2.24	1.59	1.24
	1.70	17.2	14.4	11.44	9.18	7.82	6.81	6.09	5.52	4.99	3.93	2.84	2.26	1.63	1.27
	1.65	17.9	14.6	11.63	9.37	7.90	6.88	6.23	5.61	5.08	4.00	2.88	2.30	1.67	1.30
HZS12-7	1.75	25.4	15.5	11.9	9.8	8.44	7.41	6.63	5.95	5.40	4.21	3.02	2.50	1.80	1.40
	1.70	26.2	16.0	12.1	10.0	8.53	7.49	6.70	6.00	5.45	4.27	3.08	2.55	1.82	1.43
	1.65	26.9	16.5	12.3	10.1	8.66	7.59	6.78	6.09	5.55	4.36	3.12	2.58	1.84	1.44
HZS12-7.5	1.75	27.3	16.6	12.8	10.5	9.0	7.94	7.10	6.37	5.78	4.52	3.24	2.67	1.93	1.50
	1.70	28.1	17.2	13.0	10.7	9.1	8.02	7.18	6.43	5.84	4.58	3.30	2.73	1.96	1.53
	1.65	28.8	17.7	13.2	10.8	9.3	8.13	7.27	6.53	5.94	4.67	3.34	2.76	1.98	1.54
HZS12-10	1.75	34.0	22.8	17.5	14.1	12.0	10.5	9.40	8.50	7.80	6.33	4.64	3.63	2.52	1.95
	1.70	35.5	23.4	17.9	14.5	12.3	10.8	9.55	8.60	7.91	6.40	4.70	3.70	2.58	2.00
	1.65	37.0	24.0	18.3	14.9	12.6	10.9	9.70	8.72	7.97	6.45	4.78	3.77	2.65	2.04
HZS12-12	1.75	43.6	26.6	20.4	16.9	14.5	12.7	11.4	10.19	9.25	7.22	5.19	4.28	3.08	2.40
	1.70	44.9	27.5	20.8	17.1	14.6	12.8	11.5	10.3	9.34	7.33	5.28	4.37	3.13	2.45
	1.65	46.2	28.3	21.1	17.3	14.8	13.0	11.6	10.4	9.51	7.47	5.34	4.42	3.16	2.47
HZS12-18	1.75	55.9	39.9	30.8	26.0	21.9	18.8	16.6	14.8	13.4	10.7	8.03	6.32	4.49	3.48
	1.70	58.9	41.4	32.0	26.5	22.3	19.2	16.9	15.1	13.7	11.0	8.16	6.49	4.62	3.58
	1.65	60.0	42.0	32.9	26.9	22.6	19.5	17.2	15.4	14.0	11.2	8.33	6.59	4.67	-
HZS12-26	1.75	85.5	62.0	48.4	39.3	33.7	29.4	26.1	23.4	21.3	17.0	12.1	9.60	7.06	5.45
	1.70	88.9	64.2	50.2	40.5	34.4	30.1	26.6	23.9	21.8	17.2	12.3	9.68	7.11	5.56
	1.65	96.0	65.9	50.9	41.1	35.0	30.6	27.1	24.3	22.1	17.5	12.3	9.76	7.17	-
HZS12-33	1.75	112	81.9	62.4	51.1	42.9	37.6	33.1	29.6	26.9	21.2	14.7	11.2	7.66	5.99
	1.70	114	83.4	63.4	52.5	44.0	38.5	33.6	30.1	27.2	21.5	14.8	11.3	7.84	6.19
	1.65	116	84.6	64.1	53.2	44.6	38.8	34.0	30.3	27.6	21.7	15.0	11.4	7.90	-
HZS12-44	1.75	135	111	87.2	69.3	58.5	50.5	44.2	39.3	35.6	28.1	19.7	15.3	10.3	7.88
	1.70	141	114	89.1	71.2	59.3	51.0	44.6	39.7	36.2	28.7	20.0	15.5	10.6	8.03
	1.65	144	116	90.9	71.8	59.9	51.5	45.0	40.2	36.6	28.9	20.2	15.6	10.6	-
HZS12-70J	1.75	195	163	131	106	89.7	77.6	69.2	63.2	58.3	46.2	32.0	24.3	16.6	12.6
	1.70	206	174	136	111	92.6	80.6	71.1	64.0	59.0	46.8	32.5	24.6	16.8	12.8
	1.65	214	180	142	114	95.4	81.3	71.8	64.6	59.6	47.4	32.9	24.9	16.9	-
HZS12-100	1.75	294	229	177	144	123	107	95.7	87.0	79.9	64.0	44.9	35.0	24.2	18.6
	1.70	311	239	182	148	126	109	97.4	88.5	81.3	65.0	45.9	35.9	24.5	18.9
	1.65	328	244	186	151	127	110	98.2	89.4	82.0	65.8	46.7	36.3	24.7	-
HZS12-5HR	1.75	16.6	13.9	11.2	9.00	7.60	6.66	5.93	5.39	4.92	3.88	2.81	2.24	1.59	1.24
	1.70	17.2	14.4	11.4	9.18	7.82	6.81	6.09	5.52	4.99	3.93	2.84	2.26	1.63	1.27
	1.65	17.9	14.6	11.6	9.37	7.90	6.88	6.23	5.61	5.08	4.00	2.88	2.30	1.67	1.30
HZS12-6HR	1.75	30.7	17.4	12.8	10.4	8.83	7.70	6.85	6.15	5.57	4.37	3.16	2.47	1.72	1.33
	1.70	31.7	17.8	13.0	10.6	8.96	7.80	6.90	6.22	5.64	4.43	3.20	2.49	1.73	1.34
	1.65	32.2	18.1	13.3	10.8	9.10	7.90	7.00	6.30	5.73	4.52	3.26	2.54	1.76	1.36
HZS12-7.5HR	1.75	31.1	23.6	18.3	14.7	12.7	11.0	9.68	8.67	7.88	6.27	4.40	3.41	2.37	1.81
	1.70	33.0	24.6	18.6	15.1	12.9	11.2	9.88	8.85	8.06	6.38	4.47	3.46	2.40	1.84
	1.65	33.9	25.2	19.0	15.3	13.1	11.4	10.0	8.95	8.14	6.46	4.54	3.51	2.42	1.85

Battery Model	Discharge Time (minutes) (Table shows watts per cell)														
	VPC	5	10	15	20	25	30	35	40	45	60	90	120	180	240
HZS04-4.5	1.75	26.7	19.1	14.7	11.7	9.60	8.23	7.24	6.56	6.16	4.86	3.62	2.91	2.06	1.58
	1.70	27.2	19.5	15.0	11.9	9.79	8.42	7.43	6.71	6.30	4.95	3.65	2.92	2.07	1.58
	1.65	27.9	19.7	15.2	12.0	9.91	8.50	7.53	6.80	6.36	4.98	3.67	2.94	2.07	1.59
HZS04-9	1.75	56.3	42.3	32.7	26.0	21.3	18.3	16.1	14.6	13.7	10.8	8.05	6.47	4.58	3.50
	1.70	57.5	43.3	33.3	26.4	21.8	18.7	16.5	14.9	14.0	11.0	8.10	6.50	4.60	3.52
	1.65	58.8	43.8	33.7	26.7	22.0	18.9	16.7	15.1	14.1	11.1	8.17	6.53	4.61	3.54
HZS6-4.5	1.75	26.7	19.1	14.7	11.7	9.60	8.23	7.24	6.56	6.16	4.86	3.62	2.91	2.06	1.58
	1.70	27.2	19.5	15.0	11.9	9.79	8.42	7.43	6.71	6.30	4.95	3.65	2.92	2.07	1.58
	1.65	27.9	19.7	15.2	12.0	9.91	8.50	7.53	6.80	6.36	4.98	3.67	2.94	2.07	1.59
HZS06-7.2	1.75	44.5	31.8	24.5	19.5	16.0	13.7	12.1	10.9	10.3	8.10	6.04	4.86	3.44	2.63
	1.70	45.4	32.4	25.0	19.8	16.3	14.0	12.4	11.2	10.5	8.25	6.08	4.87	3.45	2.64
	1.65	46.4	32.9	25.3	20.0	16.5	14.2	12.5	11.3	10.6	8.30	6.12	4.90	3.46	2.65
HZS06-10	1.75	56.3	42.3	32.7	26.0	21.3	18.3	16.1	14.6	13.7	10.8	8.05	6.47	4.58	3.50
	1.70	57.5	43.3	33.3	26.4	21.8	18.7	16.5	14.9	14.0	11.0	8.10	6.50	4.60	3.52
	1.65	58.8	43.8	33.7	26.7	22.0	18.9	16.7	15.1	14.1	11.1	8.17	6.53	4.61	3.54
HZS06-12	1.75	71.1	50.8	39.3	31.2	25.6	22.0	19.3	17.5	16.4	13.0	9.66	7.77	5.50	4.21
	1.70	72.6	51.9	40.0	31.7	26.1	22.5	19.8	17.9	16.8	13.2	9.72	7.80	5.52	4.22
	1.65	74.3	52.6	40.4	32.0	26.4	22.7	20.1	18.1	17.0	13.3	9.80	7.83	5.53	4.25
HZS06-14 TOY	1.75	75.4	53.9	41.6	33.0	27.1	23.3	20.5	18.5	17.4	13.7	10.2	8.24	5.83	4.46
	1.70	77.0	55.0	42.4	33.6	27.7	23.8	21.0	19.0	17.8	14.0	10.3	8.27	5.85	4.48
	1.65	78.8	55.7	42.9	33.9	28.0	24.0	21.3	19.2	18.0	14.1	10.4	8.30	5.87	4.50
HZS06-20	1.75	122	84.0	64.0	53.5	47.0	42.0	37.5	33.8	31.2	25.8	19.4	15.6	11.6	9.60
	1.70	125	90.0	66.0	54.3	48.0	42.5	37.7	34.1	31.5	26.0	19.6	15.7	11.7	9.70
	1.65	128	92.0	68.0	55.5	48.1	42.8	37.9	34.3	31.6	26.2	19.8	15.8	11.8	9.75
HZS12-2.2	1.75	12.2	8.69	6.72	5.33	4.38	3.76	3.30	2.99	2.81	2.22	1.65	1.33	0.94	0.72
	1.70	12.4	8.9	6.84	5.43	4.47	3.84	3.39	3.06	2.87	2.26	1.66	1.33	0.94	0.72
	1.65	12.7	9.0	6.92	5.48	4.52	3.88	3.44	3.10	2.90	2.27	1.68	1.34	0.95	0.73
HZS12-2.9	1.75	16.0	11.5	8.9	7.03	5.78	4.95	4.36	3.95	3.71	2.92	2.18	1.75	1.24	0.95
	1.70	16.4	11.7	9.0	7.2	5.89	5.07	4.47	4.04	3.79	2.98	2.19	1.76	1.24	0.95
	1.65	16.8	11.9	9.1	7.2	5.96	5.11	4.53	4.09	3.83	3.00	2.21	1.77	1.25	0.96
HZS12-3.3	1.75	18.3	13.0	10.1	8.00	6.57	5.63	4.96	4.49	4.22	3.33	2.48	1.99	1.41	1.08
	1.70	18.6	13.3	10.3	8.1	6.70	5.77	5.08	4.60	4.31	3.39	2.50	2.00	1.42	1.08
	1.65	19.1	13.5	10.4	8.2	6.78	5.82	5.15	4.66	4.35	3.41	2.52	2.01	1.42	1.09
HZS12-5	1.75	30.1	25.3	20.5	16.6	14.1	12.4	11.10	10.14	9.27	7.37	5.37	4.30	3.07	2.41
	1.70	31.0	26.0	20.8	16.8	14.4	12.6	11.33	10.32	9.36	7.43	5.41	4.34	3.14	2.47
	1.65	32.0	26.3	21.1	17.1	14.5	12.7	11.55	10.46	9.51	7.55	5.48	4.40	3.22	2.52
HZS12-7	1.75	41.5	29.6	22.9	18.2	14.9	12.8	11.3	10.2	9.6	7.56	5.64	4.53	3.21	2.45
	1.70	42.4	30.3	23.3	18.5	15.2	13.1	11.6	10.4	9.8	7.70	5.67	4.55	3.22	2.46
	1.65	43.3	30.7	23.6	18.7	15.4	13.2	11.7	10.6	9.9	7.75	5.72	4.57	3.23	2.48
HZS12-7.5	1.60	44.2	31.2	24.0	19.0	15.7	13.5	12.0	10.8	10.1	7.86	5.76	4.59	3.24	2.48
	1.75	44.5	31.8	24.5	19.5	16.0	13.7	12.1	10.9	10.3	8.1	6.04	4.86	3.44	2.63
	1.70	45.4	32.4	25.0	19.8	16.3	14.0	12.4	11.2	10.5	8.3	6.08	4.87	3.45	2.64
HZS12-10	1.65	46.4	32.9	25.3	20.0	16.5	14.2	12.5	11.3	10.6	8.3	6.12	4.90	3.46	2.65
	1.60	47.4	33.5	25.7	20.3	16.8	14.4	12.8	11.6	10.8	8.4	6.17	4.91	3.47	2.66
	1.75	56.3	42.3	32.4	26.0	21.3	18.3	16.1	14.6	13.5	10.8	8.05	6.47	4.58	3.50
HZS12-12	1.70	57.5	43.3	33.3	26.4	21.8	18.7	16.5	14.9	13.7	11.0	8.10	6.50	4.60	3.52
	1.65	58.8	43.8	33.7	26.7	22.0	18.9	16.7	15.1	13.9	11.1	8.17	6.53	4.61	3.54
	1.75	71.1	50.8	39.3	31.2	25.6	22.0	19.3	17.5	16.4	13.0	9.7	7.77	5.50	4.21
HZS12-18	1.70	72.6	51.9	40.0	31.7	26.1	22.5	19.8	17.9	16.8	13.2	9.7	7.80	5.52	4.22
	1.65	74.3	52.6	40.4	32.0	26.4	22.7	20.1	18.1	17.0	13.3	9.8	7.83	5.53	4.25
	1.75	101	72.6	56.4	48.0	40.7	35.1	31.1	27.9	25.2	20.3	15.3	12.1	8.69	6.76
HZS12-26	1.70	106	74.8	58.1	48.6	41.1	35.5	31.5	28.3	25.8	20.8	15.6	12.4	8.92	6.94
	1.65	107	75.7	59.6	49.0	41.5	36.0	31.9	28.7	26.2	21.2	15.8	12.6	8.99	-
	1.75	155	113	88.6	72.5	62.5	54.8	48.9	44.0	40.2	32.2	23.1	18.4	13.7	10.6
HZS12-33	1.70	160	116	91	74.0	63.4	55.7	49.6	44.7	40.8	32.6	23.4	18.6	13.7	10.8
	1.65	172	119	92	75.1	64.2	56.5	50.2	45.3	41.4	33.0	23.5	18.7	13.8	-
	1.75	203	149	114	94.2	79.5	70.0	61.9	55.5	50.8	40.3	28.0	21.5	14.8	11.6
HZS12-44	1.70	206	151	115	96.2	81.0	71.2	62.5	56.3	51.1	40.6	28.3	21.7	15.1	12.0
	1.65	208	152	116	97.1	81.8	71.6	63.0	56.6	51.6	40.9	28.6	21.9	15.2	-
	1.75	245	202	160	128	108	94.1	82.8	73.9	67.1	53.3	37.6	29.3	20.0	15.3
HZS12-70J	1.70	253	206	162	130	109	94.4	83.0	74.2	68.0	54.3	38.1	29.7	20.4	15.6
	1.65	257	209	165	131	110	95.0	83.5	75.0	68.5	54.6	38.5	29.8	20.5	-
	1.75	353	297	240	195	166	145	130	119	110	87.6	61.2	46.6	32.2	24.4
HZS12-100	1.70	370	315	248	203	170	149	132	120	111	88.6	61.9	47.2	32.4	24.8
	1.65	384	324	257	209	175	150	133	121	112	89.6	62.5	47.7	32.5	-
	1.75	533	417	324	266	229	199	179	163	151	121	85.9	67.3	46.7	36.1
HZS12-5HR	1.70	559	432	331	271	231	202	181	165	153	123	87.4	68.8	47.3	36.7
	1.65	587	440	338	276	234	204	182	167	154	124	88.8	69.3	47.5	-
	1.75	30.1	25.3	20.5	16.6	14.1	12.4	11.1	10.1	9.27	7.37	5.37	4.30	3.07	2.41
HZS12-6HR	1.70	31.0	26.0	20.8	16.8	14.4	12.6	11.3	10.3	9.36	7.43	5.41	4.34	3.14	2.47
	1.65	32.0	26.3	21.1	17.1	14.5	12.7	11.6	10.5	9.51	7.55	5.48	4.40	3.22	2.52
	1.75	53.9	32.8	25.1	20.4	17.0	14.7	13.0	11.7	10.62	8.40	6.19	4.93	3.50	2.74
HZS12-7.5HR	1.70	54.7	33.1	25.4	20.7	17.2	14.8	13.1	11.8	10.73	8.54	6.37	5.07	3.62	2.87
	1.65	55.0	33.4	25.7	20.8	17.3	14.9	13.2	11.9	10.82	8.76	6.53	5.19	3.74	2.97
	1.75	56.4	43.0	33.5	27.2	23.5	20.5	18.1	16.3	14.9	11.9	8.40	6.55	4.59	3.53
HZS12-7.5HR	1.70	59.4	44.5	33.9	27.6	23.7	20.7	18.4	16.5	15.1	12.1	8.53	6.64	4.63	3.56
	1.65	60.6	45.3	34.5	28.0	24.1	21.0	18.6	16.7	15.2	12.2	8.63	6.71	4.66	3.59

**Terminal Options** (left to right)

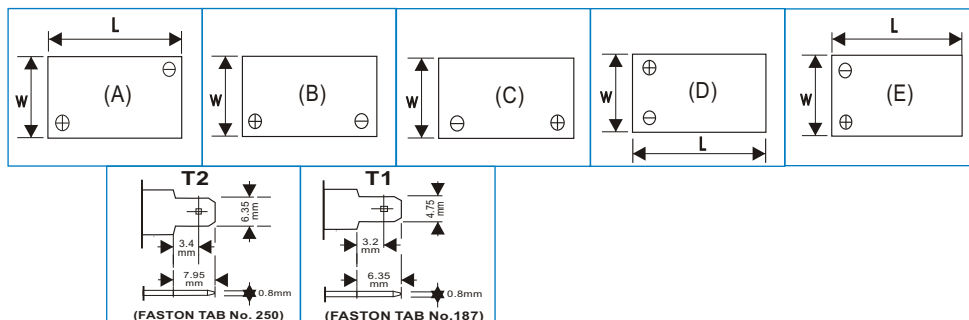
- ▶ Lead Flag
- ▶ Automotive
- ▶ J Type
- ▶ Copper Flag
- ▶ J Type Adapter
- ▶ Insert

Insert are made from brass with copper, nickel and silver plating giving excellent mechanical, electrical and corrosion resistant properties.



Battery Model	Dimensions & Weight (mm & Kg)					Dimensions & Weight (Inches & lbs)					Terminal Type	Terminal Position	Pcs Per Box
	Length	Width	Height	Inc Tabs	Weight	Length	Width	Height	Inc Tabs	Weight			
	L	W	H	h	kg	L	W	H	h	lbs			
HZS04-4.5	47	47	101	106	0.58	1.85	1.85	3.98	4.17	1.28	T1	C	10
HZS04-9	102	44	95	101	1.00	4.02	1.73	3.74	3.98	2.21	T1	B	10
HZS06-1	51	42	51	56	0.23	2.01	1.65	2.01	2.20	0.50	T1	B	20
HZS06-1.3	98	25	52	56	0.32	3.86	0.98	2.05	2.20	0.70	T1	B	40
HZS06-3.2	134	34	60	66	0.70	5.28	1.34	2.36	2.60	1.55	T1	B	20
HZS06-4.5	70	48	101	106	0.82	2.76	1.89	3.98	4.17	1.81	T1	A	20
HZS06-7.2	150	34	94	100	1.27	5.91	1.34	3.70	3.94	2.81	T1	B	10
HZS06-10	151	50	93.5	99.5	1.79	5.94	1.97	3.68	3.92	3.96	T1	B	10
HZS06-12	151	50	93.5	99.5	2.00	5.94	1.97	3.68	3.92	4.42	T2	B	10
HZS06-14 TOY	108	68.5	140	140	2.50	4.25	2.70	5.51	5.51	5.53	T2 or Cable	B	10
HZS06-20	156	82	125	125	3.55	6.14	3.23	4.92	4.92	7.85	Cu Flag	B	2
HZS12-0.8	96	25	62	62	0.35	3.78	0.98	2.44	2.44	0.77	T1	Cable	20
HZS12-1.3	96.5	45	53	59	0.57	3.80	1.77	2.09	2.32	1.26	T1	E	20
HZS12-2.2	177.5	34	60	66	0.96	6.99	1.34	2.36	2.60	2.12	T1	B	20
HZS12-2.9	78	55	98	104	1.17	3.07	2.17	3.86	4.09	2.59	T1	B	10
HZS12-3.3	133.5	67	61	67	1.39	5.26	2.64	2.40	2.64	3.07	T1	C	10
HZS12-5	90	70	101	107	1.84	3.54	2.76	3.98	4.21	4.07	T1	D	10
HZS12-5HR	140	48	103	108	1.85	5.51	1.89	4.06	4.25	4.09	+T2 -T1	B	10
HZS12-6HR	151	51	93	99	2.04	5.94	2.01	3.66	3.90	4.51	T1	D	10
HZS12-7	151	65	94	99	2.30	5.94	2.56	3.70	3.90	5.08	T1	D	8
HZS12-7.5	151	65	94	99	2.50	5.94	2.56	3.70	3.90	5.53	T1	D	8
HZS12-7.5HR	151	65	94	99	2.64	5.94	2.56	3.70	3.90	5.83	T2	D	8
HZS12-10	151	64	110	116	3.10	5.94	2.52	4.33	4.57	6.85	T2	D	6
HZS12-12	150	97	94	99	3.93	5.91	3.82	3.70	3.90	8.69	T2	D	4
HZS12-18	180	76	167	167	5.75	7.09	2.99	6.57	6.57	12.71	Insert	C	2
HZS12-26	165	174.5	125	125	8.20	6.50	6.87	4.92	4.92	18.12	Insert	C	1
HZS12-33	193.5	130	166.5	166.5	10.90	7.62	5.12	6.56	6.56	24.09	Insert	B	1
HZS12-44	196	164	170.5	170.5	13.60	7.72	6.46	6.71	6.71	30.06	Insert	C	1
HZS12-55	228	137	207	210	17.50	8.98	5.39	8.15	8.27	38.68	Insert	B	1
HZS12-70	350	166	174	174	21.50	13.78	6.54	6.85	6.85	47.52	Insert	C	1
HZS12-100	305	168	208	210	30.00	12.01	6.61	8.19	8.27	66.30	Insert	B	1

**Terminal details**



Battery Model	Nominal Voltage	Nominal Capacity 20 hr Rate to 1.75 vpc	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 mOhms
HZS04-4.5	4	4.5	4.1	3.5	3.3	2.56	1.1	45	13
HZS04-9	4	10	9.2	6.8	7.7	6.02	2.5	100	6.5
HZS06-1	6	1	0.9	0.8	0.8	0.6	0.25	10	80
HZS06-1.3	6	1.3	1.2	1.0	0.9	0.7	0.35	13	70
HZS06-3.2	6	3.2	2.9	2.4	2.4	1.8	0.8	32	30
HZS06-4.5	6	4.5	4.1	3.5	3.3	2.6	1.1	45	20
HZS06-7.2	6	7.2	6.6	5.9	5.8	4.5	1.8	72	13
HZS06-10	6	10	9.2	6.8	7.7	6.0	2.5	100	10
HZS06-12	6	12	11.0	9.4	9.2	7.2	3.0	120	10
HZS06-14 TOY	6	14	12.9	11.0	10.8	9.3	3.5	140	11
HZS06-20	6	20	19.6	15.3	14.5	12.3	5.0	200	15
HZS12-0.8	12	0.8	0.7	0.6	0.6	0.5	0.2	8	180
HZS12-1.3	12	1.3	1.2	1.0	0.9	0.7	0.4	13	130
HZS12-2.2	12	2.2	2.0	1.8	1.7	1.3	0.6	22	90
HZS12-2.9	12	2.9	2.4	2.3	2.2	1.7	0.8	30	70
HZS12-3.3	12	3.3	2.7	2.6	2.5	2.0	0.9	33	60
HZS12-5	12	5.7	5.2	4.9	4.8	3.9	1.3	50	40
HZS12-5HR	12	5.7	5.2	4.9	4.8	3.9	1.3	50	35
HZS12-6HR	12	6	5.5	5.0	4.9	3.9	1.5	60	29
HZS12-7	12	7	6.4	5.8	5.4	4.2	1.7	70	28
HZS12-7.5	12	7.5	6.9	6.1	5.8	4.5	1.9	75	25
HZS12-7.5HR	12	8.2	7.5	7.3	7.1	6.3	2.3	90	23
HZS12-10	12	10	9.2	8.0	7.6	6.5	2.5	100	21
HZS12-12	12	12	11.0	9.4	9.2	7.2	3.0	120	20
HZS12-18	12	18	15.4	14.3	13.5	10.7	4.5	180	14
HZS12-26	12	26	23.6	22.3	21.2	17.0	6.5	260	12
HZS12-33	12	33	28.5	25.0	23.0	21.2	8.5	350	9
HZS12-44	12	44	36.3	32.2	31.0	28.1	11.0	440	6
HZS12-70	12	70	56.4	51.5	49.9	46.2	18.0	700	5.5
HZS12-100	12	100	85.6	75.8	72.5	64.0	25.0	900	3.9



## Terminal Covers

Haze can provide a range of connectors, flexible cables and terminal covers to suit the larger size batteries (Greater than HZS12-18). We can also provide Faston adapters:

T1 to T2  
T2 to T1  
Insert to T1  
Insert to T2

All are made from tin plated brass for good electrical properties and corrosion resistance.





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#### VRLA Product Range

4, 6 & 12 Volt AGM 1.3 to 230AH  
6 & 12 Volt Gel 7.5 to 230AH  
12 Volt Front Access AGM  
12 Volt Front Access Gel  
2 Volt AGM & Gel 50 to 3850AH  
EV Gel  
EV AGM  
Marine Gel  
Solar