HZS Range

Sealed Lead Acid 6 & 12 Volt
Monobloc 5 Year Range

Sealed Lead Acid 6 & 12 Volt
Monobloc 5 Year Range

Amps Data

Amps	Amp load for given Autonomy to 1.85 vpc @ 20/25 °C																		
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
HZS4-4.5	13.5	7.92	6.09	5.10	4.46	4.00	3.62	3.30	3.05	2.50	1.88	1.51	1.10	0.87	0.72	0.47	0.38	0.32	0.20
HZS4-9	28.5	17.4	13.7	11.6	10.1	9.01	8.07	7.34	6.75	5.37	3.80	2.97	2.14	1.71	1.44	1.01	0.85	0.73	0.45
HZS6-1	3.08	1.94	1.52	1.28	1.12	0.98	0.88	0.80	0.73	0.57	0.42	0.33	0.24	0.19	0.16	0.11	0.09	0.08	0.05
HZS6-1.3	3.76	2.37	1.86	1.56	1.36	1.20	1.08	0.97	0.89	0.70	0.51	0.41	0.30	0.23	0.19	0.13	0.11	0.09	0.06
HZS6-3.2	12.3	7.37	5.53	4.42	3.65	3.18	2.82	2.54	2.31	1.85	1.34	1.07	0.78	0.62	0.51	0.35	0.29	0.25	0.16
HZS6-4.5	13.5	7.92	6.09	5.10	4.46	4.00	3.62	3.30	3.05	2.50	1.88	1.51	1.10	0.87	0.72	0.47	0.38	0.32	0.20
HZS6-7.2	22.7	14.2	10.7	8.90	7.56	6.51	5.76	5.21	4.74	3.76	2.80	2.29	1.70	1.37	1.14	0.77	0.64	0.54	0.33
HZS6-10	25.3	16.9	13.6	11.5	10.1	9.20	8.39	7.68	7.04	5.66	4.08	3.23	2.33	1.89	1.58	1.11	0.93	0.80	0.52
HZS6-12	34.8	23.0	17.2	14.0	11.9	10.4	9.35	8.46	7.79	6.38	4.79	3.92	2.90	2.31	1.91	1.29	1.07	0.92	0.59
HZS6-14	42.1	29.3	23.5	19.3	16.3	14.1	12.4	11.1	10.2	8.08	5.96	4.82	3.50	2.77	2.30	1.54	1.27	1.09	0.69
HZS6-20	57.0	39.0	31.5	27.0	23.1	20.1	17.8	16.0	14.7	12.0	8.75	6.83	4.67	3.58	2.93	2.00	1.68	1.45	0.95
HZS12-0.8	2.48	1.56	1.22	1.03	0.90	0.79	0.71	0.64	0.58	0.46	0.34	0.27	0.19	0.15	0.13	0.09	0.07	0.06	0.04
HZS12-1.3	3.76	2.37	1.86	1.56	1.36	1.20	1.08	0.97	0.89	0.70	0.51	0.41	0.30	0.23	0.19	0.13	0.11	0.09	0.06
HZS12-2.2	6.86	4.42	3.52	2.97	2.56	2.25	2.02	1.82	1.65	1.31	0.95	0.76	0.55	0.43	0.36	0.25	0.20	0.17	0.11
HZS12-2.9	9.08	5.71	4.50	3.82	3.32	2.94	2.64	2.38	2.17	1.71	1.24	0.99	0.71	0.56	0.47	0.31	0.26	0.22	0.14
HZS12-3.3	10.5	6.51	5.16	4.36	3.81	3.36	3.01	2.71	2.47	1.96	1.41	1.13	0.83	0.65	0.54	0.36	0.30	0.26	0.16
HZS12-5	20.1	11.5	8.59	7.04	6.01	5.27	4.67	4.18	3.79	2.97	2.09	1.62	1.15	0.89	0.73	0.48	0.40	0.34	0.20
HZS12-5HR	20.1	11.5	8.59	7.04	6.01	5.27	4.67	4.18	3.79	2.97	2.09	1.62	1.15	0.89	0.73	0.48	0.40	0.34	0.20
HZS12-6HR	27.0	15.3	11.2	9.17	7.77	6.78	6.03	5.41	4.90	3.87	2.73	2.13	1.51	1.18	0.99	0.68	0.56	0.48	0.30
HZS12-7	22.7	14.2	10.7	8.90	7.56	6.51	5.76	5.21	4.74	3.76	2.80	2.29	1.70	1.37	1.14	0.77	0.64	0.54	0.33
HZS12-7.5	21.1	13.2	10.0	8.18	7.08	6.25	5.58	5.10	4.75	3.89	2.85	2.29	1.64	1.31	1.10	0.75	0.63	0.54	0.34
HZS12-7.5HR	31.9	21.6	16.7	13.33	11.21	9.68	8.54	7.64	6.92	5.46	3.88	3.00	2.11	1.63	1.32	0.85	0.69	0.59	0.37
HZS12-10	25.3	16.9	13.6	11.5	10.1	9.20	8.39	7.68	7.04	5.66	4.08	3.23	2.31	1.85	1.55	1.09	0.91	0.78	0.51
HZS12-12	34.8	23.0	17.2	14.0	11.9	10.4	9.35	8.46	7.79	6.38	4.79	3.92	2.90	2.31	1.91	1.29	1.07	0.92	0.59
HZS12-12HR	50.2	28.9	22.0	18.1	15.6	13.8	12.4	11.3	10.3	8.18	5.87	4.62	3.29	2.58	2.15	1.46	1.21	1.03	0.65
HZS12-18	75.0	44.4	33.0	26.5	22.4	19.6	17.5	15.9	14.5	11.7	8.31	6.50	4.59	3.61	2.99	1.97	1.62	1.37	0.88
HZS12-26	67.9	49.8	40.4	33.5	28.7	25.1	22.4	20.2	18.4	14.7	10.6	8.50	6.15	4.85	3.99	2.65	2.17	1.85	1.17
HZS12-33	95.8	65.5	53.5	45.6	40.6	36.2	32.2	28.9	26.2	20.3	14.1	10.9	7.60	5.93	4.94	3.39	2.83	2.45	1.60
HZS12-44	118	83.4	69.0	58.9	51.7	45.9	41.1	37.3	34.1	26.9	18.9	14.6	10.0	7.72	6.32	4.21	3.49	2.99	1.95
HZS12-70J	164	132	111	93.8	81.3	71.8	64.5	58.7	53.8	42.9	30.1	23.3	16.1	12.3	10.1	6.63	5.48	4.71	3.11
HZS12-100	227	182	153	130	112	99.4	89.5	81.6	75.1	59.7	42.5	33.3	23.3	18.1	14.8	9.89	8.18	6.98	4.50

Amps	Amp load for given Autonomy to 1.80 vpc @ 20/25 °C																		
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
HZS4-4.5	14.4	8.46	6.50	5.44	4.76	4.27	3.87	3.53	3.26	2.67	2.01	1.62	1.18	0.93	0.77	0.50	0.41	0.34	0.21
HZS4-9	30.5	18.6	14.7	12.4	10.8	9.63	8.62	7.84	7.21	5.73	4.05	3.18	2.28	1.82	1.54	1.08	0.91	0.78	0.48
HZS6-1	3.32	2.05	1.58	1.33	1.14	1.01	0.90	0.81	0.74	0.58	0.42	0.34	0.25	0.19	0.16	0.11	0.09	0.08	0.05
HZS6-1.3	4.05	2.50	1.93	1.62	1.39	1.23	1.10	0.99	0.90	0.71	0.52	0.41	0.30	0.23	0.19	0.13	0.11	0.09	0.06
HZS6-3.2	13.1	7.87	5.91	4.72	3.90	3.39	3.01	2.71	2.47	1.98	1.43	1.14	0.83	0.66	0.55	0.37	0.31	0.26	0.17
HZS6-4.5	14.4	8.46	6.50	5.44	4.76	4.27	3.87	3.53	3.26	2.67	2.01	1.62	1.18	0.93	0.77	0.50	0.41	0.34	0.21
HZS6-7.2	24.3	15.1	11.4	9.50	8.08	6.96	6.16	5.57	5.06	4.01	3.00	2.45	1.81	1.46	1.22	0.82	0.68	0.57	0.35
HZS6-10	27.1	18.0	14.5	12.3	10.8	9.83	8.96	8.21	7.52	6.04	4.36	3.45	2.49	2.01	1.69	1.18	0.99	0.85	0.55
HZS6-12	37.2	24.5	18.4	14.9	12.7	11.1	9.99	9.04	8.32	6.82	5.12	4.18	3.10	2.46	2.04	1.38	1.14	0.98	0.63
HZS6-14	44.9	31.6	24.5	19.8	16.7	14.3	12.6	11.4	10.3	8.21	6.06	4.89	3.54	2.80	2.32	1.55	1.28	1.10	0.69
HZS6-20	65.0	43.0	33.5	28.0	23.7	20.6	18.1	16.2	14.8	12.2	8.95	6.95	4.77	3.68	3.01	2.05	1.72	1.48	0.96
HZS12-0.8	2.67	1.65	1.28	1.07	0.92	0.81	0.73	0.65	0.59	0.47	0.34	0.27	0.20	0.15	0.13	0.09	0.07	0.06	0.04
HZS12-1.3	4.05	2.50	1.93	1.62	1.39	1.23	1.10	0.99	0.90	0.71	0.52	0.41	0.30	0.23	0.19	0.13	0.11	0.09	0.06
HZS12-2.2	7.55	4.66	3.63	3.04	2.61	2.30	2.06	1.84	1.68	1.32	0.96	0.77	0.56	0.44	0.36	0.25	0.21	0.17	0.11
HZS12-2.9	9.80	6.07	4.75	3.95	3.42	3.01	2.70	2.43	2.21	1.74	1.27	1.01	0.72	0.57	0.47	0.32	0.26	0.22	0.14
HZS12-3.3	11.3	6.95	5.51	4.57	3.92	3.45	3.09	2.77	2.50	1.98	1.43	1.14	0.84	0.66	0.55	0.37	0.31	0.26	0.16
HZS12-5	21.4	12.2	9.17	7.52	6.42	5.63	4.99	4.46	4.05	3.18	2.23	1.73	1.23	0.95	0.78	0.52	0.42	0.36	0.22
HZS12-5HR	21.4	12.2	9.17	7.52	6.42	5.63	4.99	4.46	4.05	3.18	2.23	1.73	1.23	0.95	0.78	0.52	0.42	0.36	0.22
HZS12-6HR	28.8	16.3	12.0	9.80	8.30	7.24	6.44	5.78	5.24	4.14	2.91	2.27	1.61	1.26	1.05	0.72	0.60	0.51	0.32
HZS12-7	24.3	15.1	11.4	9.50	8.08	6.96	6.16	5.57	5.06	4.01	3.00	2.45	1.81	1.46	1.22	0.82	0.68	0.57	0.35
HZS12-7.5	22.6	14.1	10.7	8.74	7.56	6.67	5.96	5.44	5.08	4.15	3.05	2.44	1.75	1.40	1.17	0.80	0.68	0.58	0.37
HZS12-7.5HR	34.1	23.1	17.9	14.24	11.98	10.34	9.12	8.16	7.39	5.84	4.14	3.21	2.26	1.74	1.41	0.90	0.74	0.63	0.40
HZS12-10	27.1	18.0	14.5	12.3	10.8	9.83	8.96	8.21	7.52	6.04	4.36	3.45	2.46	1.97	1.65	1.16	0.97	0.84	0.54
HZS12-12	37.2	24.5	18.4	14.9	12.7	11.1	9.99	9.04	8.32	6.82	5.12	4.18	3.10	2.46	2.04	1.38	1.14	0.98	0.63
HZS12-12HR	53.6	30.9	23.5	19.4	16.6	14.8	13.3	12.0	11.0	8.74	6.27	4.94	3.51	2.75	2.29	1.56	1.29	1.10	0.69
HZS12-18	80.1	47.4	35.2	28.3	23.9	20.9	18.7	16.9	15.5	12.5	8.88	6.95	4.90	3.85	3.19	2.11	1.73	1.47	0.94
HZS12-26	73.5	52.5	42.1	34.7	29.6	25.8	23.0	20.6	18.8	14.9	10.8	8.58	6.24	4.92	4.04	2.67	2.20	1.87	1.19
HZS12-33	105	69.2	56.0	47.3	42.1	37.5	33.1	29.7	26.8	20.8	14.5	11.2	7.79	6.09	5.05	3.47	2.91	2.51	1.64
HZS12-44	128	89.7	72.9	61.9	53.8	47.4	42.4	38.4	35.1	27.6	19.5	15.1	10.4	7.99	6.54	4.34	3.59	3.08	2.01
HZS12-70J	183	146	120	99.9	85.3	75.1	67.3	60.9	55.6	44.1	31.1	23.9	16.4	12.6	10.2	6.75	5.60	4.82	3.20
HZS12-100	276	205	167	138	119	105	93.8	85.2	77.7	61.7	43.7	34.2	23.8	18.4	15.1	10.1	8.40	7.15	4.63

Amps	Amp load for given Autonomy to 1.75 vpc @ 20/25 °C																		
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
HZS4-4.5	15.4	9.00	6.92	5.79	5.06	4.54	4.11	3.75	3.47	2.84	2.13	1.72	1.25	0.99	0.81	0.53	0.43	0.37	0.22
HZS4-9	32.4	19.8	15.6	13.2	11.5	10.2	9.17	8.34	7.67	6.10	4.31	3.38	2.43	1.94	1.64	1.15	0.97	0.83	0.51
HZS6-1	3.50	2.13	1.64	1.36	1.17	1.02	0.92	0.82	0.75	0.59	0.43	0.34	0.25	0.20	0.16	0.11	0.09	0.08	0.05
HZS6-1.3	4.27	2.59	2.00	1.66	1.42	1.25	1.12	1.00	0.91	0.72	0.52	0.42	0.30	0.24	0.20	0.13	0.11	0.10	0.06
HZS6-3.2	14.0	8.37	6.29	5.02	4.15	3.61	3.20	2.89	2.63	2.10	1.53	1.22	0.89	0.70	0.58	0.40	0.33	0.28	0.18
HZS6-4.5	15.4	9.00	6.92	5.79	5.06	4.54	4.11	3.75	3.47	2.84	2.13	1.72	1.25	0.99	0.81	0.53	0.43	0.37	0.22
HZS6-7.2	25.8	16.1	12.2	10.1	8.59	7.40	6.55	5.93	5.39	4.27	3.19	2.61	1.93	1.55	1.29	0.88	0.72	0.61	0.38
HZS6-10	28.8	19.2	15.4	13.1	11.5	10.5	9.5	8.7	8.00	6.43	4.64	3.67	2.62	2.10	1.76	1.23	1.04	0.89	0.58
HZS6-12	39.6	26.1	19.6	15.9	13.5	11.8	10.6	9.6	8.85	7.25	5.45	4.45	3.30	2.62	2.17	1.46	1.22	1.04	0.67
HZS6-14	47.0	32.7	25.2	20.4	17.0	14.6	12.8	11.6	10.5	8.33	6.15	4.95	3.58	2.82	2.34	1.56	1.29	1.10	0.70
HZS6-20	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	3.06	2.08	1.74	1.50	0.98
HZS12-0.8	2.82	1.71	1.32	1.09	0.94	0.82	0.74	0.66	0.60	0.48	0.34	0.28	0.20	0.16	0.13	0.09	0.07	0.06	0.04
HZS12-1.3	4.27	2.59	2.00	1.66	1.42	1.25	1.12	1.00	0.91	0.72	0.52	0.42	0.30	0.24	0.20	0.13	0.11	0.10	0.06
HZS12-2.2	8.00	4.88	3.74	3.09	2.65	2.33	2.08	1.87	1.70	1.34	0.97	0.78	0.56	0.44	0.37	0.25	0.21	0.18	0.11
HZS12-2.9	10.3	6.35	4.93	4.08	3.49	3.07	2.74	2.46	2.24	1.77	1.28	1.02	0.73	0.58	0.48	0.32	0.27	0.23	0.15
HZS12-3.3	12.0	7.32	5.61	4.64	3.98	3.49	3.12	2.80	2.54	2.00	1.45	1.16	0.85	0.67	0.55	0.37	0.31	0.26	0.17
HZS12-5	22.8	13.0	9.8	8.00	6.83	5.99	5.31	4.75	4.31	3.38	2.37	1.85	1.30	1.01	0.83	0.55	0.45	0.38	0.23
HZS12-5HR	22.8	13.0	9.76	8.00	6.83	5.99	5.31	4.75	4.31	3.38	2.37	1.85	1.30	1.01	0.83	0.55	0.45	0.38	0.23
HZS12-6HR	30.7	17.4	12.8	10.4	8.83	7.70	6.85	6.15	5.57	4.40	3.10	2.42	1.72	1.35	1.12	0.77	0.64	0.54	0.34
HZS12-7	25.8	16.1	12.2	10.1	8.59	7.40	6.55	5.93	5.39	4.27	3.19	2.61	1.93	1.55	1.29	0.88	0.72	0.61	0.38
HZS12-7.5	24.0	15.0	11.4	9.3	8.04	7.10	6.34	5.79	5.40	4.42	3.24	2.60	1.87	1.49	1.25	0.86	0.72	0.62	0.39
HZS12-7.5HR	36.2	24.6	19.0	15.15	12.74	11.00	9.70	8.69	7.87	6.21	4.41	3.41	2.40	1.85	1.50	0.96	0.79	0.67	0.42
HZS12-10	28.8	19.2	15.4	13.1	11.5	10.5	9.53	8.73	8.00	6.43	4.64	3.67	2.62	2.10	1.76	1.23	1.04	0.89	0.58
HZS12-12	39.6	26.1	19.6	15.9	13.5	11.8	10.6	9.62	8.85	7.25	5.45	4.45	3.30	2.62	2.17	1.46	1.22	1.04	0.67
HZS12-12HR	57.0	32.9	25.0	20.6	17.7	15.7	14.1	12.8	11.7	9.30	6.67	5.25	3.73	2.93	2.44	1.66	1.38	1.18	0.74
HZS12-18	85.2	50.5	37.5	30.1	25.4	22.3	19.9	18.0	16.5	13.2	9.45	7.39	5.22	4.10	3.40	2.24	1.84	1.56	1.00
HZS12-26	77.2	54.5	43.2	35.5	30.1	26.3	23.4	21.1	19.1	15.2	10.9	8.66	6.30	4.96	4.08	2.70	2.22	1.88	1.20
HZS12-33	111	71.7	57.5	48.3	42.7	38.0	33.5	30.1	27.2	21.1	14.7	11.3	7.92	6.17	5.13	3.52	2.94	2.53	1.66
HZS12-44	135	93.4	75.4	63.3	54.8	48.3	43.1	39.1	35.6	28.0	19.7	15.3	10.5	8.13	6.65	4.42	3.66	3.14	2.05
HZS12-70J	195	154	124	103	88.2	77.3	68.9	62.4	56.9	44.9	31.6	24.3	16.7	12.7	10.4	6.84	5.67	4.87	3.24
HZS12-100	294	217	173	142	122	107	95.7	87.0	79.5	62.9	44.5	34.8	24.2	18.7	15.4	10.3	8.55	7.32	4.75

Amps	Amp load for given Autonomy to 1.70 vpc @ 20/25 °C																		
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
HZS4-4.5	15.7	9.20	7.07	5.92	5.18	4.64	4.20	3.83	3.54	2.91	2.18	1.76	1.28	1.01	0.83	0.54	0.44	0.37	0.23
HZS4-9	33.1	20.2	15.9	13.5	11.8	10.5	9.37	8.52	7.84	6.23	4.41	3.45	2.48	1.98	1.68	1.18	0.99	0.84	0.52
HZS6-1	3.65	2.20	1.67	1.38	1.18	1.03	0.93	0.83	0.76	0.60	0.43	0.35	0.25	0.20	0.16	0.11	0.09	0.08	0.05
HZS6-1.3	4.45	2.68	2.04	1.68	1.44	1.26	1.13	1.01	0.92	0.73	0.53	0.42	0.31	0.24	0.20	0.14	0.11	0.10	0.06
HZS6-3.2	14.3	8.55	6.43	5.13	4.24	3.69	3.28	2.95	2.69	2.15	1.56	1.24	0.91	0.72	0.60	0.40	0.34	0.29	0.19
HZS6-4.5	15.7	9.20	7.07	5.92	5.18	4.64	4.20	3.83	3.54	2.91	2.18	1.76	1.28	1.01	0.83	0.54	0.44	0.37	0.23
HZS6-7.2	26.4	16.4	12.4	10.3	8.78	7.56	6.69	6.06	5.51	4.36	3.26	2.66	1.97	1.59	1.32	0.89	0.74	0.62	0.38
HZS6-10	29.4	19.6	15.7	13.4	11.8	10.7	9.74	8.92	8.18	6.57	4.74	3.75	2.70	2.19	1.83	1.29	1.08	0.93	0.60
HZS6-12	40.5	26.7	20.0	16.2	13.8	12.1	10.9	9.83	9.05	7.41	5.57	4.55	3.37	2.68	2.22	1.50	1.24	1.07	0.69
HZS6-14	47.9	33.3	26.0	20.8	17.4	14.9	13.1	11.8	10.7	8.48	6.26	5.03	3.63	2.85	2.36	1.57	1.30	1.11	0.70
HZS6-20	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	3.11	2.11	1.76	1.51	0.99
HZS12-0.8	2.94	1.77	1.35	1.11	0.95	0.83	0.75	0.67	0.61	0.48	0.35	0.28	0.20	0.16	0.13	0.09	0.07	0.06	0.04
HZS12-1.3	4.45	2.68	2.04	1.68	1.44	1.26	1.13	1.01	0.92	0.73	0.53	0.42	0.31	0.24	0.20	0.14	0.11	0.10	0.06
HZS12-2.2	8.23	5.04	3.81	3.14	2.68	2.35	2.11	1.89	1.71	1.36	0.99	0.80	0.57	0.45	0.37	0.26	0.21	0.18	0.11
HZS12-2.9	10.9	6.64	5.02	4.13	3.53	3.10	2.78	2.49	2.26	1.79	1.30	1.03	0.74	0.59	0.49	0.33	0.27	0.23	0.15
HZS12-3.3	12.3	7.56	5.71	4.70	4.02	3.53	3.16	2.83	2.57	2.03	1.46	1.17	0.85	0.67	0.56	0.38	0.31	0.27	0.17
HZS12-5	23.3	13.3	9.97	8.18	6.98	6.12	5.42	4.85	4.41	3.45	2.42	1.89	1.33	1.04	0.85	0.56	0.46	0.39	0.24
HZS12-5HR	23.3	13.3	9.97	8.18	6.98	6.12	5.42	4.85	4.41	3.45	2.42	1.89	1.33	1.04	0.85	0.56	0.46	0.39	0.24
HZS12-6HR	31.3	17.8	13.0	10.7	9.02	7.87	7.00	6.29	5.70	4.50	3.17	2.47	1.75	1.37	1.14	0.79	0.65	0.55	0.35
HZS12-7	26.4	16.4	12.4	10.3	8.78	7.56	6.69	6.06	5.51	4.36	3.26	2.66	1.97	1.59	1.32	0.89	0.74	0.62	0.38
HZS12-7.5	24.5	15.3	11.7	9.50	8.22	7.26	6.48	5.92	5.52	4.52	3.31	2.66	1.91	1.53	1.27	0.88	0.74	0.63	0.40
HZS12-7.5HR	37.0	25.1	19.4	15.5	13.02	11.24	9.92	8.88	8.04	6.35	4.50	3.49	2.45	1.89	1.53	0.98	0.80	0.68	0.43
HZS12-10	29.4	19.6	15.7	13.4	11.8	10.7	9.74	8.92	8.18	6.57	4.74	3.75	2.68	2.15	1.80	1.26	1.06	0.91	0.59
HZS12-12	40.5	26.7	20.0	16.2	13.8	12.1	10.9	9.83	9.05	7.41	5.57	4.55	3.37	2.68	2.22	1.50	1.24	1.07	0.69
HZS12-12HR	58.3	33.6	25.6	21.1	18.1	16.0	14.5	13.1	11.9	9.50	6.81	5.37	3.82	2.99	2.49	1.70	1.41	1.20	0.75
HZS12-18	87.1	51.6	38.3	30.7	26.0	22.8	20.4	18.4	16.9	13.5	9.65	7.55	5.33	4.19	3.47	2.29	1.88	1.59	1.02
HZS12-26	80.2	56.2	44.4	36.4	30.9	26.9	23.9	21.5	19.5	15.4	11.0	8.74	6.36	5.00	4.11	2.73	2.24	1.91	1.22
HZS12-33	114	74.0	59.1	49.1	43.4	38.5	34.1	30.5	27.6	21.4	14.9	11.5	8.03	6.27	5.20	3.58	2.98	2.58	1.69
HZS12-44	141	95.7	76.6	64.4	55.7	49.1	43.9	39.7	36.1	28.3	20.0	15.4	10.7	8.25	6.75	4.49	3.72	3.20	2.09
HZS12-70J	206	162	128	105	89.8	78.5	70.0	63.3	57.8	45.5	31.9	24.6	16.9	13.0	10.6	7.00	5.81	4.99	3.32
HZS12-100	311	226	179	146	125	109	97.4	88.5	80.7	63.8	45.4	35.4	24.5	18.9	15.6	10.5	8.69	7.45	4.84

Amps Data

Amps	Amp load for given Autonomy to 1.65 vpc @ 20/25 °C													
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	15.9	9.32	7.16	5.99	5.24	4.70	4.26	3.88	3.59	2.94	2.21	1.78	1.29	1.02
HZS4-9	33.5	20.5	16.1	13.7	11.9	10.6	9.49	8.63	7.94	6.31	4.46	3.50	2.51	2.01
HZS6-1	3.75	2.24	1.70	1.40	1.20	1.05	0.94	0.84	0.76	0.60	0.44	0.35	0.25	0.20
HZS6-1.3	4.57	2.74	2.08	1.70	1.46	1.28	1.14	1.03	0.93	0.74	0.53	0.43	0.31	0.24
HZS6-3.2	14.4	8.66	6.51	5.20	4.30	3.73	3.32	2.99	2.72	2.18	1.58	1.26	0.92	0.73
HZS6-4.5	15.9	9.32	7.16	5.99	5.24	4.70	4.26	3.88	3.59	2.94	2.21	1.78	1.29	1.02
HZS6-7.2	26.7	16.6	12.6	10.5	8.89	7.66	6.78	6.13	5.58	4.42	3.30	2.70	2.00	1.61
HZS6-10	29.8	19.9	15.9	13.5	11.9	10.8	9.9	9.04	8.28	6.66	4.80	3.79	2.74	2.22
HZS6-12	41.0	27.0	20.3	16.5	14.0	12.3	11.0	9.95	9.16	7.50	5.64	4.61	3.42	2.71
HZS6-14	48.8	33.9	26.5	21.3	17.7	15.1	13.3	11.9	10.8	8.58	6.33	5.08	3.65	2.87
HZS6-20	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
HZS12-0.8	3.02	1.81	1.37	1.12	0.96	0.84	0.75	0.68	0.62	0.49	0.35	0.28	0.20	0.16
HZS12-1.3	4.57	2.74	2.08	1.70	1.46	1.28	1.14	1.03	0.93	0.74	0.53	0.43	0.31	0.24
HZS12-2.2	8.59	5.18	3.87	3.18	2.72	2.39	2.13	1.91	1.74	1.38	1.00	0.81	0.58	0.45
HZS12-2.9	11.2	6.83	5.10	4.19	3.59	3.15	2.81	2.52	2.30	1.81	1.32	1.05	0.75	0.59
HZS12-3.3	12.7	7.77	5.81	4.77	4.08	3.58	3.20	2.87	2.62	2.05	1.47	1.18	0.86	0.68
HZS12-5	23.6	13.5	10.1	8.28	7.07	6.20	5.49	4.91	4.46	3.50	2.45	1.91	1.35	1.05
HZS12-5HR	23.6	13.5	10.1	8.28	7.07	6.20	5.49	4.91	4.46	3.50	2.45	1.91	1.35	1.05
HZS12-6HR	31.7	18.0	13.2	10.8	9.14	7.97	7.09	6.37	5.77	4.55	3.21	2.50	1.78	1.39
HZS12-7	26.7	16.6	12.6	10.5	8.89	7.66	6.78	6.13	5.58	4.42	3.30	2.70	2.00	1.61
HZS12-7.5	24.8	15.5	11.8	9.6	8.32	7.35	6.56	5.99	5.59	4.57	3.35	2.69	1.93	1.54
HZS12-7.5HR	37.5	25.5	19.7	15.68	13.19	11.39	10.04	8.99	8.14	6.43	4.56	3.53	2.48	1.91
HZS12-10	29.8	19.9	15.9	13.5	11.9	10.8	9.87	9.04	8.28	6.66	4.80	3.79	2.71	2.17
HZS12-12	41.0	27.0	20.3	16.5	14.0	12.3	11.0	9.95	9.16	7.50	5.64	4.61	3.42	2.71
HZS12-12HR	59.0	34.0	25.9	21.3	18.3	16.2	14.6	13.2	12.1	9.63	6.90	5.43	3.86	3.03
HZS12-18	88.2	52.2	38.8	31.1	26.3	23.1	20.6	18.7	17.1	13.7	9.78	7.65	5.40	4.24
HZS12-26	84.5	57.7	45.3	37.0	31.4	27.3	24.1	21.6	19.7	15.5	11.1	8.81	6.40	5.04
HZS12-33	116	76.2	60.3	50.0	44.0	39.0	34.6	31.0	27.9	21.6	15.0	11.6	8.08	6.32
HZS12-44	144	97.9	78.1	65.2	56.3	49.6	44.4	40.2	36.6	28.6	20.1	15.5	10.8	8.31
HZS12-70J	214	167	131	107	91.4	79.7	71.0	64.2	58.6	46.0	32.2	24.8	17.1	13.1
HZS12-100	328	232	182	148	126	110	98.6	89.4	81.6	64.6	45.7	35.6	24.7	19.2

Amps	Amp load for given Autonomy to 1.60 vpc @ 20/25 °C													
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	16.1	9.41	7.23	6.05	5.29	4.74	4.30	3.92	3.62	2.97	2.23	1.80	1.31	1.03
HZS4-9	33.9	20.7	16.3	13.8	12.0	10.7	9.58	8.72	8.01	6.37	4.51	3.53	2.54	2.02
HZS6-1	3.86	2.28	1.73	1.42	1.21	1.06	0.95	0.85	0.77	0.61	0.44	0.35	0.26	0.20
HZS6-1.3	4.70	2.78	2.11	1.73	1.48	1.29	1.16	1.04	0.94	0.74	0.54	0.43	0.31	0.25
HZS6-3.2	14.6	8.75	6.57	5.25	4.34	3.77	3.35	3.02	2.75	2.20	1.59	1.27	0.93	0.73
HZS6-4.5	16.1	9.41	7.23	6.05	5.29	4.74	4.30	3.92	3.62	2.97	2.23	1.80	1.31	1.03
HZS6-7.2	27.0	16.8	12.7	10.6	8.98	7.73	6.84	6.19	5.63	4.46	3.33	2.72	2.02	1.62
HZS6-10	30.1	20.1	16.1	13.7	12.0	10.9	10.0	9.12	8.36	6.72	4.85	3.83	2.77	2.24
HZS6-12	41.4	27.3	20.5	16.6	14.1	12.4	11.1	10.05	9.25	7.58	5.69	4.65	3.45	2.74
HZS6-14	49.7	34.5	26.9	21.6	18.0	15.3	13.5	12.1	11.0	8.72	6.44	5.15	3.69	2.89
HZS6-20	80.0	49.6	36.8	30.0	25.2	21.6	18.9	17.0	15.5	12.6	9.39	7.32	5.04	3.88
HZS12-0.8	3.10	1.84	1.39	1.14	0.97	0.85	0.76	0.68	0.62	0.49	0.36	0.28	0.21	0.16
HZS12-1.3	4.70	2.78	2.11	1.73	1.48	1.29	1.16	1.04	0.94	0.74	0.54	0.43	0.31	0.25
HZS12-2.2	8.90	5.33	3.94	3.22	2.75	2.41	2.16	1.94	1.76	1.40	1.01	0.81	0.59	0.46
HZS12-2.9	11.5	7.03	5.19	4.25	3.63	3.18	2.84	2.55	2.33	1.84	1.33	1.05	0.76	0.60
HZS12-3.3	13.5	8.00	5.97	4.86	4.14	3.62	3.23	2.90	2.64	2.07	1.49	1.19	0.87	0.68
HZS12-5	23.8	13.6	10.2	8.36	7.14	6.26	5.54	4.96	4.50	3.53	2.48	1.93	1.36	1.06
HZS12-5HR	23.8	13.6	10.2	8.36	7.14	6.26	5.54	4.96	4.50	3.53	2.48	1.93	1.36	1.06
HZS12-6HR	32.0	18.2	13.3	10.9	9.23	8.05	7.16	6.43	5.82	4.60	3.24	2.52	1.79	1.41
HZS12-7	27.0	16.8	12.7	10.6	8.98	7.73	6.84	6.19	5.63	4.46	3.33	2.72	2.02	1.62
HZS12-7.5	25.1	15.7	11.9	9.7	8.4	7.42	6.63	6.05	5.64	4.62	3.39	2.72	1.95	1.56
HZS12-7.5HR	37.9	25.7	19.9	15.8	13.3	11.50	10.14	9.08	8.22	6.49	4.60	3.56	2.51	1.93
HZS12-10	30.1	20.1	16.1	13.7	12.0	10.9	10.0	9.12	8.36	6.72	4.85	3.83	2.74	2.19
HZS12-12	41.4	27.3	20.5	16.6	14.1	12.4	11.1	10.05	9.25	7.58	5.69	4.65	3.45	2.74
HZS12-12HR	59.6	34.4	26.1	21.5	18.5	16.4	14.8	13.4	12.2	9.72	6.97	5.49	3.90	3.06
HZS12-18	88.2	52.2	38.8	31.1	26.3	23.1	20.6	18.7	17.1	13.7	9.78	7.65	5.40	4.24
HZS12-26	88.4	59.2	46.3	37.6	31.7	27.6	24.4	21.9	19.9	15.7	11.2	8.87	6.45	5.06
HZS12-33	121	78.6	61.4	50.9	44.7	39.5	35.0	31.3	28.2	21.8	15.1	11.7	8.14	6.36
HZS12-44	149	100	79.3	66.0	56.7	50.0	44.7	40.5	36.9	28.9	20.3	15.6	10.9	8.38
HZS12-70J	226	172	134	109	92.4	80.5	71.7	64.8	59.1	46.4	32.4	25.0	17.2	13.2
HZS12-100	347	239	186	151	128	112	99.8	90.5	82.7	65.1	46.1	35.9	24.9	19.3

Watts per cell			Watts per cell load to 1.85 vpc @ 20/25°C											
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	19.5	13.7	10.9	9.24	8.10	7.33	6.70	6.19	5.79	4.81	3.56	2.82	1.99	1.52
HZS4-9	60.2	38.6	29.2	23.8	20.3	18.1	16.3	14.9	13.7	11.0	8.21	6.60	4.72	3.65
HZS6-1	5.92	3.56	2.72	2.28	1.97	1.73	1.54	1.39	1.27	1.00	0.73	0.59	0.43	0.34
HZS6-1.3	7.22	4.34	3.32	2.78	2.40	2.11	1.88	1.69	1.55	1.22	0.89	0.72	0.52	0.41
HZS6-3.2	26.5	15.0	10.77	8.49	7.07	6.06	5.33	4.79	4.36	3.49	2.60	2.09	1.54	1.23
HZS6-4.5	19.5	13.7	10.9	9.24	8.10	7.33	6.70	6.19	5.79	4.81	3.56	2.82	1.99	1.52
HZS6-7.2	43.1	26.8	20.0	16.2	13.7	12.0	10.7	9.8	9.07	7.43	5.63	4.55	3.32	2.64
HZS6-10	42.2	32.7	28.5	24.0	20.7	18.1	16.3	14.8	13.6	11.1	8.21	6.75	4.99	3.92
HZS6-12	62.9	44.0	35.5	29.4	25.1	22.2	19.8	18.0	16.6	13.5	9.97	8.14	6.04	4.84
HZS6-14	72.0	52.1	40.4	32.2	26.3	22.6	19.7	17.9	16.9	13.4	10.1	8.17	5.79	4.41
HZS6-20	104	71.0	57.0	50.0	44.0	39.0	35.0	32.2	30.0	24.5	18.4	15.0	11.0	9.00
HZS12-0.8	4.76	2.86	2.19	1.83	1.59	1.39	1.24	1.12	1.02	0.81	0.59	0.47	0.35	0.27
HZS12-1.3	7.22	4.34	3.32	2.78	2.40	2.11	1.88	1.69	1.55	1.22	0.89	0.72	0.52	0.41
HZS12-2.2	11.0	8.10	6.44	5.14	4.25	3.66	3.22	2.90	2.65	2.14	1.63	1.32	0.93	0.71
HZS12-2.9	14.8	10.8	8.53	6.84	5.65	4.86	4.29	3.87	3.52	2.86	2.15	1.73	1.22	0.94
HZS12-3.3	16.2	12.2	9.47	7.65	6.41	5.50	4.84	4.37	3.98	3.25	2.42	1.95	1.39	1.07
HZS12-5	36.2	22.2	16.9	13.9	12.0	10.6	9.38	8.38	7.57	5.83	4.03	3.11	2.14	1.65
HZS12-5HR	36.2	22.2	16.9	13.9	12.0	10.6	9.38	8.38	7.57	5.83	4.03	3.11	2.14	1.65
HZS12-6HR	47.4	28.9	21.7	17.6	14.9	12.9	11.4	10.3	9.39	7.46	5.44	4.34	3.08	2.41
HZS12-7	43.1	26.8	20.0	16.2	13.7	12.0	10.7	9.8	9.07	7.43	5.63	4.55	3.32	2.64
HZS12-7.5	42.2	25.7	19.7	16.4	14.2	12.5	11.2	10.2	9.32	7.57	5.61	4.47	3.16	2.44
HZS12-7.5HR	59.8	38.0	29.9	24.5	20.8	18.0	16.1	14.6	13.3	10.47	7.21	5.62	4.02	3.25
HZS12-10	42.2	32.7	28.5	24.0	20.7	18.1	16.3	14.8	13.6	11.1	8.21	6.75	4.99	3.92
HZS12-12	62.9	44.0	35.5	29.4	25.1	22.2	19.8	18.0	16.6	13.5	10.0	8.14	6.04	4.84
HZS12-12HR	88.0	52.8	41.0	34.3	29.6	26.0	23.5	21.5	19.8	16.1	12.0	9.59	6.94	5.39
HZS12-18	152.1	87.2	63.6	52.0	44.3	38.6	34.4	31.0	28.5	22.8	16.4	12.8	9.06	7.16
HZS12-26	129	92.8	75.4	62.9	54.0	47.6	42.3	38.2	35.0	28.1	20.5	16.5	12.0	9.60
HZS12-33	189	138	109	91.0	78.2	68.7	61.4	55.3	50.3	39.9	28.1	21.7	15.2	11.8
HZS12-44	220	176	141	117	100	87.6	78.4	70.8	64.8	51.4	36.6	28.4	19.7	15.1
HZS12-70J	306	246	205	176	153	136	123	112	103	83.2	59.1	45.6	31.4	24.2
HZS12-100	422	339	283	242	210	187	169	155	143	116	83.9	65.6	45.8	35.6

Watts per cell			Watts per cell load to 1.80 vpc @ 20/25 °C											
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	20.9	14.7	11.7	9.87	8.65	7.83	7.15	6.61	6.18	5.14	3.80	3.02	2.12	1.63
HZS4-9	64.3	41.2	31.2	25.4	21.7	19.3	17.5	15.9	14.6	11.8	8.77	7.05	5.04	3.90
HZS6-1	6.32	3.80	2.91	2.43	2.10	1.85	1.65	1.48	1.35	1.07	0.78	0.63	0.46	0.36
HZS6-1.3	7.71	4.63	3.55	2.97	2.57	2.26	2.01	1.81	1.65	1.31	0.95	0.76	0.56	0.44
HZS6-3.2	28.3	16.1	11.5	9.07	7.55	6.47	5.69	5.11	4.66	3.73	2.77	2.23	1.64	1.31
HZS6-4.5	20.9	14.7	11.7	9.87	8.65	7.83	7.15	6.61	6.18	5.14	3.80	3.02	2.12	1.63
HZS6-7.2	46.0	28.6	21.4	17.3	14.6	12.8	11.4	10.4	9.7	7.94	6.02	4.86	3.55	2.82
HZS6-10	45.1	35.0	30.5	25.7	22.1	19.4	17.4	15.8	14.5	11.8	8.77	7.21	5.33	4.18
HZS6-12	67.2	47.0	37.9	31.4	26.9	23.7	21.2	19.3	17.7	14.4	10.65	8.70	6.45	5.17
HZS6-14	73.7	53.0	41.0	32.6	26.8	23.0	20.1	18.2	17.2	13.6	10.2	8.20	5.81	4.44
HZS6-20	118	80.0	62.0	52.5	46.0	41.5	37.0	33.5	31.0	25.5	19.2	15.4	11.5	9.40
HZS12-0.8	5.09	3.06	2.34	1.96	1.69	1.49	1.33	1.19	1.09	0.86	0.63	0.50	0.37	0.29
HZS12-1.3	7.71	4.63	3.55	2.97	2.57	2.26	2.01	1.81	1.65	1.31	0.95	0.76	0.56	0.44
HZS12-2.2	11.6	8.40	6.60	5.23	4.32	3.71	3.26	2.94	2.69	2.17	1.64	1.32	0.94	0.72
HZS12-2.9	15.5	11.2	8.71	6.95	5.75	4.92	4.35	3.94	3.58	2.89	2.16	1.74	1.24	0.94
HZS12-3.3	17.3	12.5	9.70	7.80	6.51	5.58	4.91	4.44	4.04	3.29	2.45	1.96	1.40	1.07
HZS12-5	38.7	23.7	18.0	14.9	12.9	11.3	10.0	8.95	8.08	6.22	4.31	3.32	2.29	1.76
HZS12-5HR	38.7	23.7	18.0	14.9	12.9	11.3	10.0	8.95	8.08	6.22	4.31	3.32	2.29	1.76
HZS12-6HR	50.7	30.8	23.2	18.8	15.9	13.8	12.2	11.0	10.0	7.97	5.82	4.63	3.29	2.57
HZS12-7	46.0	28.6	21.4	17.3	14.6	12.8	11.4	10.4	9.7	7.94	6.02	4.86	3.55	2.82
HZS12-7.5	45.1	27.5	21.1	17.5	15.2	13.4	12.0	10.9	10.0	8.08	5.99	4.78	3.37	2.61
HZS12-7.5HR	63.8	40.6	31.9	26.2	22.2	19.3	17.2	15.6	14.2	11.19	7.70	6.00	4.29	3.47
HZS12-10	45.1	35.0	30.5	25.7	22.1	19.4	17.4	15.8	14.5	11.8	8.77	7.21	5.33	4.18
HZS12-12	67.2	47.0	37.9	31.4	26.9	23.7	21.2	19.3	17.7	14.4	10.65	8.70	6.45	5.17
HZS12-12HR	94.0	56.4	43.8	36.7	31.6	27.8	25.1	22.9	21.2	17.2	12.9	10.2	7.42	5.76
HZS12-18	162.4	93.2	68.0	55.5	47.3	41.2	36.7	33.1	30.5	24.4	17.5	13.7	9.68	7.65
HZS12-26	135	96.8	77.5	64.2	55.1	48.5	43.2	39.0	35.7	28.5	20.8	16.6	12.3	9.74
HZS12-33	200	143	112.7	93.7	80.2	70.3	62.7	56.3	51.4	40.7	28.6	22.1	15.4	12.0
HZS12-44	234	189	150	123	104	90.9	81.0	73.0	66.6	53.0	37.5	28.9	20.0	15.3
HZS12-70J	335	264	218	183	159	141	127	115	106	85.0	60.1	46.2	31.8	24.5
HZS12-100	488	370	301	254	220	195	175	160	147	119	85.5	66.8	46.6	36.1

Watts per cell			Watts per cell load to 1.75 vpc @ 20/25 °C											
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	22.2	15.6	12.4	10.5	9.20	8.33	7.61	7.04	6.58	5.47	4.05	3.21	2.26	1.73
HZS4-9	68.4	43.9	33.2	27.0	23.0	20.5	18.6	16.9	15.6	12.5	9.33	7.50	5.37	4.15
HZS6-1	6.72	4.04	3.10	2.59	2.24	1.97	1.75	1.58	1.44	1.14	0.83	0.67	0.49	0.39
HZS6-1.3	8.20	4.93	3.78	3.16	2.73	2.40	2.14	1.92	1.76	1.39	1.01	0.81	0.59	0.47
HZS6-3.2	30.1	17.1	12.24	9.65	8.04	6.88	6.06	5.44	4.96	3.97	2.95	2.37	1.75	1.40
HZS6-4.5	22.2	15.6	12.4	10.5	9.20	8.33	7.61	7.04	6.58	5.47	4.05	3.21	2.26	1.73
HZS6-7.2	49.0	30.4	22.7	18.4	15.6	13.6	12.2	11.1	10.3	8.45	6.40	5.17	3.78	3.00
HZS6-10	48.0	37.2	32.4	27.3	23.5	20.6	18.5	16.8	15.5	12.6	9.33	7.68	5.67	4.45
HZS6-12	71.4	50.0	40.4	33.4	28.6	25.2	22.5	20.5	18.9	15.3	11.3	9.26	6.86	5.50
HZS6-14	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
HZS6-20	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
HZS12-0.8	5.41	3.25	2.49	2.08	1.80	1.58	1.41	1.27	1.16	0.92	0.67	0.54	0.39	0.31
HZS12-1.3	8.20	4.93	3.78	3.16	2.73	2.40	2.14	1.92	1.76	1.39	1.01	0.81	0.59	0.47
HZS12-2.2	12.2	8.69	6.72	5.33	4.38	3.76	3.30	2.99	2.73	2.19	1.65	1.33	0.94	0.72
HZS12-2.9	16.0	11.5	8.85	7.05	5.82	4.99	4.40	3.98	3.62	2.92	2.18	1.75	1.24	0.95
HZS12-3.3	18.3	12.9	9.92	7.91	6.60	5.66	5.00	4.49	4.09	3.33	2.48	1.98	1.41	1.08
HZS12-5	41.2	25.2	19.2	15.8	13.7	12.1	10.7	9.53	8.60	6.62	4.58	3.53	2.43	1.88
HZS12-5HR	41.2	25.2	19.2	15.8	13.7	12.1	10.7	9.53	8.60	6.62	4.58	3.53	2.43	1.88
HZS12-6HR	53.9	32.8	24.6	20.0	16.9	14.7	13.0	11.7	10.7	8.48	6.19	4.93	3.50	2.74
HZS12-7	49.0	30.4	22.7	18.4	15.6	13.6	12.2	11.1	10.3	8.45	6.40	5.17	3.78	3.00
HZS12-7.5	48.0	29.2	22.4	18.7	16.1	14.3	12.7	11.6	10.6	8.60	6.37	5.08	3.59	2.78
HZS12-7.5HR	67.9	43.2	34.0	27.9	23.6	20.5	18.3	16.5	15.1	11.90	8.19	6.39	4.57	3.70
HZS12-10	48.0	37.2	32.4	27.3	23.5	20.6	18.5	16.8	15.5	12.6	9.33	7.68	5.67	4.45
HZS12-12	71.4	50.0	40.4	33.4	28.6	25.2	22.5	20.5	18.9	15.3	11.3	9.26	6.86	5.50
HZS12-12HR	100	60.0	46.6	39.0	33.6	29.6	26.7	24.4	22.5	18.3	13.7	10.9	7.89	6.13
HZS12-18	173	99.1	72.3	59.0	50.3	43.9	39.0	35.2	32.4	25.9	18.6	14.6	10.29	8.14
HZS12-26	140	100	79.8	65.6	56.2	49.3	43.9	39.7	36.2	28.9	20.9	16.7	12.3	9.80
HZS12-33	205	146	115	95.1	81.2	71.1	63.3	56.9	51.9	41.0	28.8	22.3	15.6	12.1
HZS12-44	245	194	153	125	106	92.3	82.3	74.1	67.5	53.5	37.8	29.3	20.2	15.5
HZS12-70J	353	279	226	189	163	145	130	118	108	86.3	60.8	46.8	32.2	24.7
HZS12-100	533	389	312	262	227	199	179	163	151	121	86.5	67.4	47.1	36.5

Watts per cell			Watts per cell load to 1.70 vpc @ 20/25 °C											
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	22.7	15.9	12.7	10.7	9.40	8.52	7.78	7.19	6.72	5.59	4.14	3.28	2.31	1.77
HZS4-9	69.9	44.8	33.9	27.6	23.5	21.0	19.0	17.3	15.9	12.8	9.54	7.67	5.48	4.24
HZS6-1	6.87	4.13	3.16	2.65	2.29	2.01	1.79	1.61	1.47	1.17	0.85	0.68	0.50	0.40
HZS6-1.3	8.38	5.04	3.86	3.23	2.79	2.45	2.19	1.97	1.79	1.42	1.04	0.83	0.61	0.48
HZS6-3.2	30.8	17.5	12.5	9.87	8.21	7.03	6.19	5.56	5.07	4.06	3.02	2.42	1.78	1.43
HZS6-4.5	22.7	15.9	12.7	10.7	9.40	8.52	7.78	7.19	6.72	5.59	4.14	3.28	2.31	1.77
HZS6-7.2	50.0	31.1	23.2	18.8	15.9	13.9	12.4	11.3	10.5	8.63	6.54	5.28	3.86	3.07
HZS6-10	49.1	38.0	33.1	27.9	24.0	21.1	18.9	17.2	15.8	12.9	9.54	7.84	5.79	4.55
HZS6-12	73.0	51.1	41.2	34.2	29.2	25.7	23.0	20.9	19.3	15.6	11.6	9.46	7.01	5.62
HZS6-14	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
HZS6-20	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
HZS12-0.8	5.53	3.32	2.55	2.13	1.84	1.62	1.44	1.30	1.18	0.94	0.68	0.55	0.40	0.32
HZS12-1.3	8.38	5.04	3.86	3.23	2.79	2.45	2.19	1.97	1.79	1.42	1.04	0.83	0.61	0.48
HZS12-2.2	12.4	8.88	6.84	5.43	4.47	3.82	3.37	3.03	2.77	2.22	1.66	1.33	0.94	0.72
HZS12-2.9	16.4	11.7	9.02	7.16	5.89	5.07	4.47	4.04	3.66	2.96	2.19	1.76	1.24	0.95
HZS12-3.3	18.6	13.3	10.1	8.05	6.70	5.77	5.08	4.58	4.16	3.37	2.50	2.00	1.42	1.08
HZS12-5	42.1	25.8	19.6	16.2	14.0	12.3	10.9	9.73	8.79	6.77	4.68	3.61	2.49	1.92
HZS12-5HR	42.1	25.8	19.6	16.2	14.0	12.3	10.9	9.73	8.79	6.77	4.68	3.61	2.49	1.92
HZS12-6HR	55.1	33.5	25.2	20.4	17.3	15.0	13.3	12.0	10.9	8.67	6.32	5.04	3.58	2.80
HZS12-7	50.0	31.1	23.2	18.8	15.9	13.9	12.4	11.3	10.5	8.63	6.54	5.28	3.86	3.07
HZS12-7.5	49.1	29.9	22.9	19.1	16.5	14.6	13.0	11.8	10.8	8.79	6.51	5.19	3.67	2.84
HZS12-7.5HR	69.4	44.2	34.7	28.5	24.2	21.0	18.7	16.9	15.5	12.16	8.37	6.53	4.67	3.78
HZS12-10	49.1	38.0	33.1	27.9	24.0	21.1	18.9	17.2	15.8	12.9	9.54	7.84	5.79	4.55
HZS12-12	73.0	51.1	41.2	34.2	29.2	25.7	23.0	20.9	19.3	15.6	11.6	9.46	7.01	5.62
HZS12-12HR	102	61.3	47.7	39.9	34.3	30.3	27.3	24.9	23.0	18.7	14.0	11.1	8.06	6.26
HZS12-18	177	101.3	73.9	60.3	51.4	44.8	39.9	36.0	33.1	26.5	19.1	14.9	10.52	8.31
HZS12-26	144	103	81.6	67.0	57.2	50.1	44.6	40.2	36.7	29.2	21.1	16.9	12.4	9.87
HZS12-33	210	148	116	96.2	82.2	71.7	63.8	57.4	52.3	41.2	28.9	22.4	15.7	12.2
HZS12-44	253	198	156	127	108	93.6	83.0	74.7	68.1	54.0	38.1	29.6	20.3	15.6
HZS12-70J	370	289	232	193	166	147	132	120	110	87.2	61.4	47.2	32.4	24.9
HZS12-100	559	400	320	267	230	202	181	165	152	122	87.4	68.0	47.5	36.8

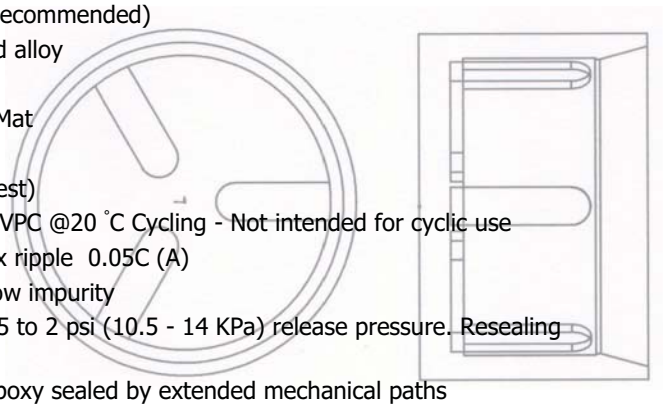
Watts per cell			Watts per cell load to 1.65 vpc @ 20/25 °C											
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	23.0	16.1	12.8	10.9	9.52	8.63	7.88	7.28	6.81	5.66	4.19	3.32	2.34	1.79
HZS4-9	70.8	45.4	34.4	27.9	23.8	21.3	19.2	17.5	16.1	12.9	9.66	7.76	5.55	4.30
HZS6-1	6.96	4.18	3.20	2.68	2.32	2.04	1.82	1.63	1.49	1.18	0.86	0.69	0.50	0.40
HZS6-1.3	8.49	5.10	3.91	3.27	2.83	2.48	2.21	1.99	1.82	1.44	1.05	0.84	0.62	0.49
HZS6-3.2	31.2	17.7	12.7	9.99	8.32	7.12	6.27	5.63	5.13	4.11	3.05	2.45	1.81	1.44
HZS6-4.5	23.0	16.1	12.8	10.9	9.52	8.63	7.88	7.28	6.81	5.66	4.19	3.32	2.34	1.79
HZS6-7.2	50.7	31.5	23.5	19.0	16.1	14.1	12.6	11.5	10.7	8.74	6.62	5.35	3.91	3.11
HZS6-10	49.7	38.5	33.5	28.3	24.3	21.3	19.2	17.4	16.0	13.0	9.66	7.94	5.87	4.61
HZS6-12	73.9	51.8	41.8	34.6	29.6	26.1	23.3	21.2	19.5	15.8	11.7	9.58	7.10	5.69
HZS6-14	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
HZS6-20	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
HZS12-0.8	5.60	3.37	2.58	2.16	1.86	1.64	1.46	1.31	1.20	0.95	0.69	0.56	0.41	0.32
HZS12-1.3	8.49	5.10	3.91	3.27	2.83	2.48	2.21	1.99	1.82	1.44	1.05	0.84	0.62	0.49
HZS12-2.2	12.7	9.00	6.92	5.48	4.52	3.86	3.41	3.07	2.79	2.24	1.68	1.34	0.95	0.73
HZS12-2.9	16.8	11.9	9.12	7.22	5.96	5.11	4.53	4.09	3.70	3.00	2.21	1.77	1.25	0.96
HZS12-3.3	19.1	13.5	10.3	8.14	6.78	5.82	5.14	4.63	4.19	3.39	2.52	2.01	1.42	1.09
HZS12-5	42.6	26.1	19.9	16.4	14.2	12.5	11.0	9.86	8.90	6.85	4.74	3.65	2.52	1.94
HZS12-5HR	42.6	26.1	19.9	16.4	14.2	12.5	11.0	9.86	8.90	6.85	4.74	3.65	2.52	1.94
HZS12-6HR	55.8	33.9	25.5	20.7	17.5	15.2	13.5	12.1	11.0	8.78	6.40	5.10	3.63	2.83
HZS12-7	50.7	31.5	23.5	19.0	16.1	14.1	12.6	11.5	10.66	8.74	6.62	5.35	3.91	3.11
HZS12-7.5	49.7	30.2	23.2	19.3	16.7	14.8	13.2	12.0	11.0	8.90	6.60	5.26	3.72	2.87
HZS12-7.5HR	70.3	44.7	35.1	28.8	24.5	21.2	18.9	17.1	15.7	12.32	8.48	6.61	4.73	3.82
HZS12-10	49.7	38.5	33.5	28.3	24.3	21.3	19.2	17.4	16.0	13.0	9.66	7.94	5.87	4.61
HZS12-12	73.9	51.8	41.8	34.6	29.6	26.1	23.3	21.2	19.5	15.8	11.7	9.58	7.10	5.69
HZS12-12HR	103	62.1	48.3	40.4	34.8	30.6	27.6	25.2	23.3	19.0	14.2	11.28	8.17	6.34
HZS12-18	179	102.6	74.9	61.1	52.1	45.4	40.4	36.4	33.6	26.8	19.3	15.1	10.65	8.42
HZS12-26	151	105	82.9	67.8	57.9	50.7	45.1	40.7	37.1	29.5	21.3	17.0	12.5	9.95
HZS12-33	214	151	118	97.3	83.0	72.4	64.3	57.9	52.8	41.5	29.2	22.6	15.8	12.3
HZS12-44	257	202	158	129	109	94.5	83.7	75.4	68.7	54.6	38.5	29.8	20.5	15.7
HZS12-70J	384	298	237	196	168	149	133	121	111	88.0	61.8	47.6	32.6	25.0
HZS12-100	587	410	325	271	233	205	183	167	154	123	88.3	68.7	47.8	37.1

Watts per cell			Watts per cell load to 1.60 vpc @ 20/25 °C											
Model No.	5	10	15	20	25	30	35	40	45	60	90	2 hr	3 hr	4 hr
HZS4-4.5	23.2	16.3	13.0	11.0	9.61	8.71	7.95	7.35	6.87	5.71	4.23	3.35	2.36	1.81
HZS4-9	71.5	45.8	34.7	28.2	24.1	21.5	19.4	17.7	16.3	13.1	9.75	7.84	5.61	4.34
HZS6-1	7.03	4.22	3.24	2.71	2.34	2.06	1.83	1.65	1.50	1.19	0.87	0.70	0.51	0.40
HZS6-1.3	8.57	5.15	3.95	3.30	2.85	2.51	2.24	2.01	1.84	1.45	1.06	0.85	0.62	0.49
HZS6-3.2	31.5	17.8	12.8	10.09	8.40	7.19	6.33	5.69	5.18	4.15	3.08	2.48	1.82	1.46
HZS6-4.5	23.2	16.3	13.0	11.0	9.61	8.71	7.95	7.35	6.87	5.71	4.23	3.35	2.36	1.81
HZS6-7.2	51.2	31.8	23.8	19.2	16.3	14.2	12.7	11.6	10.8	8.83	6.69	5.40	3.95	3.14
HZS6-10	50.2	38.9	33.9	28.5	24.6	21.5	19.3	17.6	16.2	13.2	9.75	8.02	5.92	4.65
HZS6-12	74.7	52.3	42.2	35.0	29.9	26.3	23.5	21.4	19.7	16.0	11.8	9.67	7.17	5.75
HZS6-14	80.4	56.7	43.5	34.4	28.5	24.4	21.7	19.6	18.3	14.3	10.5	8.34	5.88	4.52
HZS6-20	131	94.0	69.0	56.0	48.3	43.0	38.0	34.4	31.7	26.3	20.0	16.0	11.9	9.80
HZS12-0.8	5.66	3.40	2.60	2.18	1.88	1.66	1.48	1.33	1.21	0.96	0.70	0.56	0.41	0.33
HZS12-1.3	8.57	5.15	3.95	3.30	2.85	2.51	2.24	2.01	1.84	1.45	1.06	0.85	0.62	0.49
HZS12-2.2	13.0	9.16	7.03	5.56	4.59	3.93	3.46	3.11	2.83	2.26	1.69	1.35	0.95	0.73
HZS12-2.9	17.1	12.1	9.26	7.32	6.02	5.19	4.59	4.14	3.74	3.02	2.23	1.77	1.25	0.96
HZS12-3.3	19.9	13.9	10.4	8.24	6.87	5.90	5.20	4.68	4.22	3.42	2.53	2.02	1.42	1.10
HZS12-5	43.0	26.3	20.1	16.5	14.3	12.6	11.1	9.95	8.99	6.92	4.79	3.69	2.54	1.96
HZS12-5HR	43.0	26.3	20.1	16.5	14.3	12.6	11.1	9.95	8.99	6.92	4.79	3.69	2.54	1.96
HZS12-6HR	56.3	34.3	25.7	20.9	17.7	15.4	13.6	12.2	11.1	8.86	6.47	5.15	3.66	2.86
HZS12-7	51.2	31.8	23.8	19.2	16.3	14.2	12.7	11.6	10.8	8.83	6.69	5.40	3.95	3.14
HZS12-7.5	50.2	30.5	23.4	19.5	16.9	14.9	13.3	12.1	11.1	8.99	6.66	5.31	3.75	2.90
HZS12-7.5HR	71.0	45.1	35.5	29.1	24.7	21.4	19.1	17.3	15.8	12.44	8.56	6.67	4.77	3.86
HZS12-10	50.2	38.9	33.9	28.5	24.6	21.5	19.3	17.6	16.2	13.2	9.75	8.02	5.92	4.65
HZS12-12	74.7	52.3	42.2	35.0	29.9	26.3	23.5	21.4	19.7	16.0	11.8	9.67	7.17	5.75
HZS12-12HR	104	62.7	48.7	40.8	35.1	30.9	27.9	25.5	23.5	19.2	14.3	11.4	8.25	6.40
HZS12-18	179	102.6	74.9	61.1	52.1	45.4	40.4	36.4	33.6	26.8	19.3	15.1	10.65	8.42
HZS12-26	157	108	84.2	68.7	58.5	51.1	45.6	41.1	37.5	29.7	21.4	17.1	12.6	10.0
HZS12-33	219	155	120	98.4	83.8	73.1	65.0	58.5	53.3	41.9	29.5	22.8	15.9	12.4
HZS12-44	265	206	160	130	110	95.6	84.7	76.1	69.3	54.9	38.7	30.0	20.6	15.8
HZS12-70J	402	305	242	199	170	150	135	122	111	88.7	62.3	47.9	32.8	25.2
HZS12-100	617	420	330	275	236	207	185	168	155	124	89.0	69.0	48.1	37.3

Physical Data

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 - Not intended for cyclic use 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.

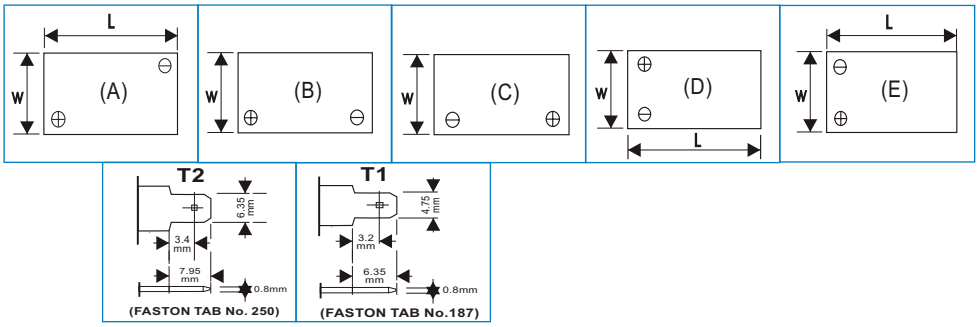
Innovative Features

- Maintenance free i.e. sealed construction eliminates the need for watering
- Increased durability for heavy demand applications
- Fully jar formed plates
- Low impurity 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.

Applications

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

Terminal details



Dimensions		**Metric** mm/kg					**Imperial** inches/lbs					Terminal	Box
Model No.	Length	Width	Height	Inc tabs	Kg	Length	Width	Height	Inc tabs	Lbs	Terminal	Layout	Qty
HZS4-4.5	47	47	101	107	0.58	1.85	1.85	3.98	4.21	1.3	T1	C	20
HZS4-9	102	44	95	101	1.13	4.02	1.73	3.74	3.98	2.5	T1	B	20
HZS06-1	51	42	51	56	0.23	2.01	1.65	2.01	2.20	0.5	T1	B	20
HZS06-1.3	98	25	52	58	0.30	3.86	0.98	2.05	2.28	0.7	T1	B	40
HZS06-3.2	134	34	60	66	0.70	5.28	1.34	2.36	2.60	1.5	T1	B	20
HZS6-4.5	70	47	101	107	0.85	2.76	1.85	3.98	4.21	1.9	T1	A	20
HZS6-7.2	150	34	94	100	1.16	5.91	1.34	3.70	3.94	2.6	T1	B	10
HZS6-10	151	50	95	101	1.67	5.94	1.97	3.74	3.98	3.7	T1	B	10
HZS6-12	151	50	95	101	1.85	5.94	1.97	3.74	3.98	4.1	T2	B	10
HZS06-14 TOY	107.5	70.5	141	141	2.5	4.23	2.78	5.55	5.55	5.5	T2 or Cable	B	8
HZS06-20	157	83	126	126	3.5	6.18	3.27	4.96	4.96	7.7	Cu Flag	B	6
HZS12-0.8	96	25	62	62	0.35	3.78	0.98	2.44	2.44	0.8	T1	Cable	20
HZS12-1.3	97	43.5	53	59	0.57	3.82	1.71	2.09	2.32	1.3	T1	E	15
HZS12-2.2	178.5	35	60	66	0.92	7.03	1.38	2.36	2.60	2.0	T1	B	20
HZS12-2.9	79	56	98	104	1.07	3.11	2.20	3.86	4.09	2.4	T1	B	20
HZS12-3.3	134	67	61	67	1.42	5.28	2.64	2.40	2.64	3.1	T1	C	10
HZS12-5	90	70	101	107	1.68	3.54	2.76	3.98	4.21	3.7	T1	D	10
HZS12-5HR	139	48	103	103	1.90	5.47	1.89	4.06	4.06	4.2	T2/T1	B	10
HZS12-6HR	151	51	93	99	2.08	5.94	2.01	3.66	3.90	4.6	T1	D	5
HZS12-7	151	65	94	100	2.20	5.94	2.56	3.70	3.94	4.9	T1	D	8
HZS12-7.5	151	65	94	100	2.44	5.94	2.56	3.70	3.94	5.4	T2	D	8
HZS12-7.5HR	151	65	94	102	2.64	5.94	2.56	3.70	4.02	5.8	T2	D	8
HZS12-10	151	65	110	118	3.11	5.94	2.56	4.33	4.65	6.9	T2	D	8
HZS12-12	152	98	96	102	3.50	5.98	3.86	3.78	4.02	7.7	T2	D	4
HZS12-12HR	152	99	96	102	3.93	5.98	3.90	3.78	4.02	8.7	T2	D	4
HZS12-18	181	76	167	167	5.30	7.13	2.99	6.57	6.57	11.7	Insert M5	C	1
HZS12-26	168	178	124	124	8.1	6.61	7.01	4.88	4.88	17.9	Insert M5	C	1
HZS12-33	195	130	160	160	10.7	7.68	5.12	6.30	6.30	23.6	Insert M6	B	1
HZS12-44	198	167	157	158	13.3	7.80	6.57	6.18	6.22	29.4	Insert M6	C	1
HZS12-70J	349	168	175	176	21.1	13.74	6.61	6.89	6.93	46.6	Insert M6	C	1
HZS12-100	306	168	211	212	29.6	12.05	6.61	8.31	8.35	65.4	Insert M6	B	1

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.

Website: www.hazebattery.com
E mail sales@hazebattery.com

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
Electric Vehicle Range
2 Volt AGM & Gel 50 to 3850AH

REV 170914