



FLOODED TUBULAR TECHNOLOGY FOR LONG FLOAT & CYCLE LIFE APPLICATIONS

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

HAZE FLOODED TUBULAR RANGE UTILIZES PROVEN MATERIALS & CONSTRUCTION TECHNOLOGY TAILORED FOR THE SPECIFIC DEMANDS OF INDUSTRIES WORLDWIDE WITH LONG FLOAT & CYCLE LIFE APPLICATIONS. PERFORMANCE IS GREATLY ENHANCED BY THE INCLUSION OF SPECIAL MATERIALS, TECHNIQUES AND PROCESSES DEVELOPED THROUGH EXTENSIVE R&D AND EXHAUSTIVE TESTING.

MANUFACTURED TO THE HIGHEST INTERNATIONAL STANDARDS, THE RANGE IS IDEAL FOR RELIABLE USE IN ALL EXTREME CYCLING APPLICATIONS.

Operation

Nominal Voltage - 2V

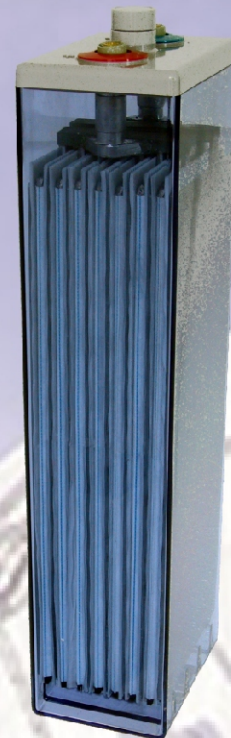
Float Charge - 2.23 - 2.30 vpc at 20 - 25°C

Frequent Use Applications - Superior cycle life at all depths of discharge

Design Life - 15 Years @ 25°C

Connection - Cables, bus bar connectors and terminal covers available on request.

Operating Temperature - -20 to 50°C



Construction

Vented recombinant cap - Flooded, periodic topping-up required

Positive plate - Tubular, Pb Sb alloy for long float and cycle life

Negative Plate - Flat pasted with frame

Separator - Microporous Polymer

Formation - Superior proprietary in-case-formation

Electrolyte - Very high purity Sulfuric acid

Flame Arrester - Standard

Terminal - Female insert as standard, proven, reliable, long life sealing method

Case - High impact resistant SAN, flame retardant to UL94-V0 on request. Cover ABS.

Venting valve - EPDM rubber, excellent acid resistance for long life

Specification - Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.

Transport - Approved as non-hazardous cargo for ground, sea and air transportation in accordance with US DOT Regulation 49 and ICAO & IATA Packing Instruction 806.

VENTED LEAD ACID 2 VOLT TUBULAR FLOODED BLOC

Battery Model	Nominal Voltage	C1	C3	C5	C10	C100
		1.65 VPC	1.75 VPC	1.75 VPC	1.80 VPC	1.85 VPC
OPzS 200	2	136	177	205	242	282
OPzS 250	2	160	187	203	227	278
OPzS 300	2	172	214	239	273	321
OPzS 350	2	208	273	311	336	371
OPzS 420	2	256	344	393	442	521
OPzS 490	2	294	383	431	469	516
OPzS 600	2	376	490	583	661	730
OPzS 770	2	429	545	629	722	795
OPzS 800	2	457	584	674	769	825
OPzS 1000	2	547	728	851	977	1054
OPzS 1200	2	703	1030	1270	1565	1688
OPzS 1500	2	1015	1611	1958	2366	2612
OPzS 2000	2	1213	1883	2270	2682	3084
OPzS 2500	2	1419	2203	2656	3138	3527
OPzS 3000	2	1624	2578	3133	3786	4168



The Quality & Management system governing the manufacture of this product is ISO 9001:2000 and ISO 14001:2004 certified.

Battery Model	Approx. Dimensions (mm)			Total Height	Approx. Weight Kg	Approx. Dimensions (Inch)			Total Height	Approx. Weight lbs	Terminal Pairs	Internal Resistance mOhms	Terminal 18 Nm Torque
	Length	Width	Height			Length	Width	Height					
OPzS 200	105	208	360	395	19	4.13	8.19	14.17	15.55	42.0	1	1.1	M8
OPzS 250	126	208	360	395	22.5	4.96	8.19	14.17	15.55	49.7	1	0.9	M8
OPzS 300	147	208	360	395	26	5.79	8.19	14.17	15.55	57.5	1	0.8	M8
OPzS 350	126	208	475	510	31	4.96	8.19	18.70	20.08	68.5	1	0.7	M8
OPzS 420	147	208	475	510	36	5.79	8.19	18.70	20.08	79.6	1	0.6	M8
OPzS 490	168	208	475	510	42	6.61	8.19	18.70	20.08	92.8	1	0.5	M8
OPzS 600	147	208	650	685	50	5.79	8.19	25.59	26.97	110.5	1	0.45	M8
OPzS 770	215	254	475	510	64	8.46	10.00	18.70	20.08	141.4	1	0.4	M8
OPzS 800	215	193	650	685	68	8.46	7.60	25.59	26.97	150.3	2	0.38	M8
OPzS 1000	215	235	650	685	82	8.46	9.25	25.59	26.97	181.2	2	0.36	M8
OPzS 1200	215	277	650	710	100	8.46	10.91	25.59	27.95	221.0	2	0.34	M8
OPzS 1500	215	277	796	855	118	8.46	10.91	31.34	33.66	260.8	2	0.31	M8
OPzS 2000	215	400	772	815	166	8.46	15.75	30.39	32.09	366.9	3	0.3	M8
OPzS 2500	215	490	772	815	208	8.46	19.29	30.39	32.09	459.7	4	0.28	M8
OPzS 3000	215	580	772	815	246	8.46	22.83	30.39	32.09	543.7	4	0.28	M8

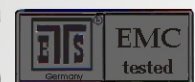
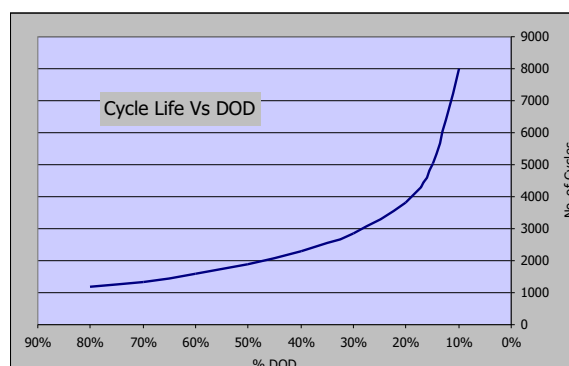
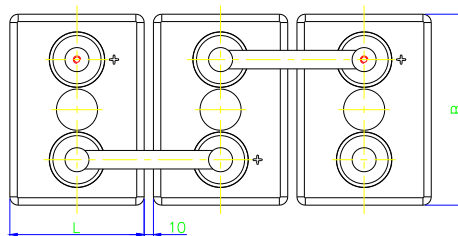
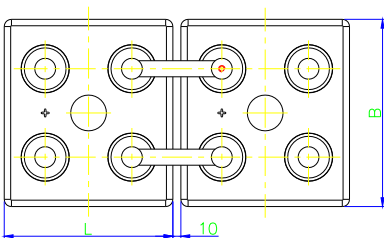
Charging

The maximum applied charging current should be 15% of C24. In cyclic applications the maximum applied charging voltage should be 2.4 vpc.

For:

- Daily discharge less than 0.4 x C100. Use 2.30 - 2.35 at 20 Degrees C
- Daily discharge more than 0.4 x C100. Use 2.35 - 2.40 at 20 Degrees C

Charging Voltage is adjusted 5 mV/C



UL Recognised Component
MH28512

OPzS DISCHARGE DATA



Haze Battery Company Ltd

DISCHARGE DATA

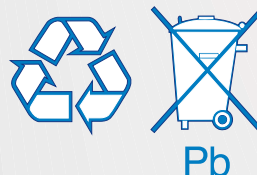
Vented Stationary Lead Acid Batteries OPzS



Battery Model	Approx. Dimensions (mm)			Total Height	Approx. Weight Kg	Approx. Dimensions (Inch)			Total Height	Approx. Weight lbs	Terminal Pairs	Internal Resistance mOhms	Terminal 18 Nm Torque
	Length	Width	Height			Length	Width	Height					
OPzS 200	105	208	360	395	19	4.13	8.19	14.17	15.55	42.0	1	1.1	M8
OPzS 250	126	208	360	395	22.5	4.96	8.19	14.17	15.55	49.7	1	0.9	M8
OPzS 300	147	208	360	395	26	5.79	8.19	14.17	15.55	57.5	1	0.8	M8
OPzS 350	126	208	475	510	31	4.96	8.19	18.70	20.08	68.5	1	0.7	M8
OPzS 420	147	208	475	510	36	5.79	8.19	18.70	20.08	79.6	1	0.6	M8
OPzS 490	168	208	475	510	42	6.61	8.19	18.70	20.08	92.8	1	0.5	M8
OPzS 600	147	208	650	685	50	5.79	8.19	25.59	26.97	110.5	1	0.45	M8
OPzS 770	215	254	475	510	64	8.46	10.00	18.70	20.08	141.4	1	0.4	M8
OPzS 800	215	193	650	685	68	8.46	7.60	25.59	26.97	150.3	2	0.38	M8
OPzS 1000	215	235	650	685	82	8.46	9.25	25.59	26.97	181.2	2	0.36	M8
OPzS 1200	215	277	650	710	100	8.46	10.91	25.59	27.95	221.0	2	0.34	M8
OPzS 1500	215	277	796	855	118	8.46	10.91	31.34	33.66	260.8	2	0.31	M8
OPzS 2000	215	400	772	815	166	8.46	15.75	30.39	32.09	366.9	3	0.3	M8
OPzS 2500	215	490	772	815	208	8.46	19.29	30.39	32.09	459.7	4	0.28	M8
OPzS 3000	215	580	772	815	246	8.46	22.83	30.39	32.09	543.7	4	0.28	M8

Battery Model	Nominal Voltage	C1	C3	C5	C10	C100
		1.65 VPC	1.75 VPC	1.75 VPC	1.80 VPC	1.85 VPC
OPzS 200	2	136	177	205	242	282
OPzS 250	2	160	187	203	227	278
OPzS 300	2	172	214	239	273	321
OPzS 350	2	208	273	311	336	371
OPzS 420	2	256	344	393	442	521
OPzS 490	2	294	383	431	469	516
OPzS 600	2	376	490	583	661	730
OPzS 770	2	429	545	629	722	795
OPzS 800	2	457	584	674	769	825
OPzS 1000	2	547	728	851	977	1054
OPzS 1200	2	703	1030	1270	1565	1688
OPzS 1500	2	1015	1611	1958	2366	2612
OPzS 2000	2	1213	1883	2270	2682	3084
OPzS 2500	2	1419	2203	2656	3138	3527
OPzS 3000	2	1624	2578	3133	3786	4168

Used batteries marked with these symbols contain materials which are reusable and must be sent for recycling. Used batteries which are not sent for recycling must be disposed of as special waste in accordance with all regulations.



End of Discharge Voltage = 1.65							DISCHARGE CURRENT in A							25 °C		
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
OPzS 200	369	308	211	162	136	102	82.3	60.9	49.0	-	-	-	-	-	-	-
OPzS 250	430	351	249	193	160	116	90.9	64.2	49.7	-	-	-	-	-	-	-
OPzS 300	459	385	272	209	172	128	102	73.6	58.1	-	-	-	-	-	-	-
OPzS 350	529	440	315	249	208	153	124	93.9	75.9	-	-	-	-	-	-	-
OPzS 420	603	514	375	302	256	196	159	118	95.0	-	-	-	-	-	-	-
OPzS 490	666	571	431	345	294	221	178	132	106	-	-	-	-	-	-	-
OPzS 600	792	677	529	434	376	279	226	169	138	-	-	-	-	-	-	-
OPzS 770	1038	884	650	517	429	306	250	187	152	-	-	-	-	-	-	-
OPzS 800	1183	993	719	553	457	327	269	201	163	-	-	-	-	-	-	-
OPzS 1000	1387	1170	866	669	547	403	332	251	204	-	-	-	-	-	-	-
OPzS 1200	1666	1401	1058	844	703	534	447	354	300	-	-	-	-	-	-	-
OPzS 1500	1832	1611	1300	1134	1015	830	712	554	462	-	-	-	-	-	-	-
OPzS 2000	2021	1775	1508	1337	1213	1000	839	648	539	-	-	-	-	-	-	-
OPzS 2500	2364	2077	1764	1564	1419	1170	982	758	631	-	-	-	-	-	-	-
OPzS 3000	2932	2578	2081	1815	1624	1328	1139	887	739	-	-	-	-	-	-	-

End of Discharge Voltage = 1.70					DISCHARGE CURRENT in A										25 °C				
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	48 hr	72 hr	100 hr
OPzS 200	335	287	200	156	131	99.4	80.8	60.0	48.3	41.5	36.5	33.1	29.7	24.8	21.3	13.6	6.09	-	-
OPzS 250	390	327	236	185	154	113	89.3	63.3	49.0	41.0	34.9	31.1	28.0	23.3	19.9	13.0	5.81	-	-
OPzS 300	416	358	258	200	165	124	100	72.5	57.2	48.2	42.0	37.3	33.5	28.0	23.9	15.3	6.83	-	-
OPzS 350	480	409	299	239	200	148	122	92.6	74.8	62.9	54.1	47.5	42.2	34.5	29.0	17.9	7.98	-	-
OPzS 420	547	478	356	289	246	191	157	117	93.6	79.5	68.7	60.6	54.3	45.2	38.8	24.8	11.1	-	-
OPzS 490	604	531	409	331	283	215	174	130	104	87.2	75.1	66.1	58.8	48.0	40.3	25.0	11.1	-	-
OPzS 600	718	630	502	416	362	272	222	166	136	118	104	92.2	82.7	67.7	57.2	35.7	15.7	-	-
OPzS 770	941	822	617	496	413	297	245	185	150	127	111	98.2	88.3	74.0	62.9	38.9	17.3	-	-
OPzS 800	1072	924	682	530	440	318	264	198	161	136	119	106	94.7	78.8	66.5	41.0	18.0	-	-
OPzS 1000	1257	1088	822	641	527	391	326	247	201	172	151	135	122	100	84.1	51.4	22.7	-	-
OPzS 1200	1510	1304	1004	810	677	519	439	349	295	257	231	210	191	160	136	83.7	36.1	-	-
OPzS 1500	1661	1499	1234	1088	978	807	699	546	455	396	352	317	288	242	209	135	57.1	-	-
OPzS 2000	1832	1651	1431	1282	1169	972	824	638	531	459	404	361	327	275	235	149	66.1	-	-
OPzS 2500	2143	1932	1674	1500	1367	1137	964	747	622	537	473	422	383	321	275	174	77.3	-	-
OPzS 3000	2657	2399	1975	1741	1564	1292	1118	874	729	634	564	508	461	388	335	215	91.4	-	-

End of Discharge Voltage = 1.75					DISCHARGE CURRENT in A										25 °C				
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	48 hr	72 hr	100 hr
OPzS 200	294	265	191	151	128	97.4	79.3	59.0	47.8	41.0	36.2	32.7	29.4	24.6	21.1	13.5	6.04	-	-
OPzS 250	342	302	226	179	150	111	87.5	62.2	48.4	40.5	34.6	30.8	27.7	23.0	19.8	12.9	5.76	-	-
OPzS 300	365	331	247	194	161	122	98.1	71.3	56.6	47.7	41.6	36.9	33.2	27.7	23.7	15.2	6.77	-	-
OPzS 350	421	378	285	232	195	145	119	91.0	73.9	62.2	53.6	47.0	41.8	34.1	28.8	17.8	7.92	-	-
OPzS 420	480	442	340	280	240	187	154	115	92.5	78.6	68.0	60.0	53.8	44.8	38.5	24.7	11.0	-	-
OPzS 490	530	491	391	320	276	210	171	128	103	86.2	74.4	65.4	58.2	47.6	40.0	24.8	11.0	-	-
OPzS 600	630	582	480	403	353	266	218	163	135	117	103	91.3	81.9	67.0	56.7	35.5	15.5	-	-
OPzS 770	826	760	590	480	403	291	241	182	148	126	110	97.2	87.4	73.3	62.3	38.6	17.2	-	-
OPzS 800	941	854	652	513	429	311	259	195	159	135	117	105	93.8	78.0	65.9	40.7	17.8	-	-
OPzS 1000	1104	1006	786	621	514	383	320	243	199	170	150	134	121	99.1	83.4	51.0	22.5	-	-
OPzS 1200	1326	1205	960	784	660	509	430	343	292	254	228	208	189	159	135	83.0	35.8	-	-
OPzS 1500	1458	1386	1180	1053	953	791	685	537	450	392	349	314	285	240	208	134	56.7	-	-
OPzS 2000	1608	1526	1368	1241	1139	952	808	628	525	454	400	357	324	272	233	148	65.6	-	-
OPzS 2500	1881	1786	1601	1452	1333	1114	945	734	614	531	468	418	379	318	273	173	76.7	-	-
OPzS 3000	2333	2217	1888	1685	1525	1265	1096	859	720	627	558	503	456	384	332	214	90.7	-	-

End of Discharge Voltage = 1.80					DISCHARGE CURRENT in A										25 °C					
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	48 hr	72 hr	100 hr	
OPzS 200	253	232	174	141	121	93.6	76.8	57.8	46.9	40.3	35.6	32.3	29.0	24.2	20.9	13.4	5.98	4.05	2.94	
OPzS 250	294	264	206	167	142	106	84.8	61.0	47.5	39.9	34.1	30.3	27.3	22.7	19.5	12.7	5.70	3.95	2.90	
OPzS 300	314	289	225	181	153	117	95.0	69.9	55.5	46.9	41.0	36.3	32.7	27.3	23.4	15.0	6.70	4.60	3.34	
OPzS 350	362	330	260	217	185	140	115	89.2	72.5	61.2	52.8	46.3	41.3	33.6	28.4	17.6	7.83	5.31	3.86	
OPzS 420	413	386	310	262	227	179	149	112	90.8	77.3	67.0	59.1	53.1	44.2	38.0	24.4	10.9	7.43	5.42	
OPzS 490	456	429	356	299	262	202	166	125	101	84.8	73.2	64.5	57.5	46.9	39.5	24.5	10.9	7.39	5.37	
OPzS 600	542	509	437	377	334	256	211	160	132	115	101	89.9	80.8	66.1	56.0	35.1	15.4	10.5	7.60	
OPzS 770	710	664	537	449	382	280	233	178	145	124	108	95.8	86.2	72.2	61.6	38.2	17.0	11.4	8.27	
OPzS 800	809	746	594	480	407	299	251	191	156	133	116	103	92.5	76.9	65.1	40.3	17.6	11.9	8.58	
OPzS 1000	949	879	716	581	487	368	310	238	195	168	148	132	119	97.7	82.4	50.5	22.3	15.1	11.0	
OPzS 1200	1140	1053	875	734	626	489	417	336	286	250	225	205	186	156	133	82.1	35.5	24.2	17.6	
OPzS 1500	1254	1211	1075	986	903	760	664	526	442	385	343	310	281	237	205	132	56.1	37.6	27.2	
OPzS 2000	1383	1334	1246	1161	1080	915	782	615	516	447	394	352	320	268	231	146	64.9	44.1	32.1	
OPzS 2500	1618	1561	1458	1359	1263	1070	915	720	603	523	461	412	374	314	270	171	75.9	50.8	36.7	
OPzS 3000	2006	1938	1720	1577	1445	1216	1062	842	707	617	550	495	450	379	328	211	89.7	60.1	43.4	

End of Discharge Voltage = 1.83					DISCHARGE CURRENT in A										25 °C					
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	48 hr	72 hr	100 hr	
OPzS 200	227	210	163	132	115	89.8	74.1	56.1	45.8	39.5	34.9	31.6	28.4	23.8	20.5	13.1	5.88	3.99	2.89	
OPzS 250	264	239	192	157	135	102	81.8	59.2	46.5	39.0	33.4	29.8	26.8	22.3	19.2	12.5	5.61	3.89	2.86	
OPzS 300	282	262	210	170	145	112	91.7	67.8	54.3	45.9	40.1	35.6	32.1	26.8	22.9	14.8	6.59	4.53	3.30	
OPzS 350	325	299	243	204	175	134	111	86.6	70.9	59.9	51.7	45.4	40.4	33.1	27.9	17.3	7.71	5.23	3.80	
OPzS 420	371	350	289	246	216	172	144	109	88.8	75.7	65.6	58.0	52.0	43.4	37.3	24.0	10.7	7.32	5.34	
OPzS 490	410	389	333	281	248	194	160	121	98.9	83.0	71.8	63.2	56.3	46.1	38.8	24.1	10.7	7.28	5.29	
OPzS 600	487	461	408	354	317	245	203	155	129	112	99.1	88.2	79.2	64.9	55.0	34.5	15.1	10.3	7.49	
OPzS 770	638	602	502	422	362	268	225	173	142	121	106	93.9	84.5	71.0	60.5	37.5	16.7	11.3	8.16	
OPzS 800	727	676	555	451	386	287	242	185	152	130	113	101	90.7	75.6	63.9	39.6	17.4	11.7	8.46	
OPzS 1000	853	797	669	546	462	353	299	231	191	164	145	129	117	96.0	80.9	49.6	21.9	14.9	10.8	
OPzS 1200	1025	954	817	689	593	469	402	327	280	245	220	201	183	154	131	80.8	34.9	23.9	17.3	
OPzS 1500	1127	1097	1004	926	857	729	641	511	432	377	337	304	276	233	201	130	55.2	37.1	26.8	
OPzS 2000	1243	1209	1164	1091	1024	878	755	597	504	437	386	345	313	264	226	144	63.8	43.4	31.6	
OPzS 2500	1454	1414	1362	1276	1198	1027	884	698	590	512	452	404	367	308	265	168	74.7	50.0	36.2	
OPzS 3000	1803	1756	1607	1481	1371	1166	1025	817	691	603	539	486	441	372	322	208	88.3	59.1	42.7	

End of Discharge Voltage = 1.85					DISCHARGE CURRENT in A										25 °C				
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	48 hr	72 hr	100 hr
OPzS 200	209	194	152	126	109	85.5	70.8	54.0	44.4	38.2	33.8	30.6	27.5	23.1	19.8	12.7	5.71	3.89	2.82
OPzS 250	243	221	179	149	128	97.2	78.1	56.9	45.0	37.8	32.3	28.8	25.9	21.7	18.6	12.1	5.44	3.80	2.78
OPzS 300	260	243	196	162	138	107	87.6	65.2	52.6	44.5	38.9	34.5	31.1	26.0	22.2	14.4	6.39	4.42	3.21
OPzS 350	299	277	226	193	167	128	106	83.3	68.6	58.0	50.0	44.0	39.2	32.1	27.0	16.8	7.48	5.11	3.71
OPzS 420	341	324	270	233	205	164	137	105	86.0	73.3	63.5	56.2	50.4	42.1	36.2	23.3	10.4	7.15	5.21
OPzS 490	377	360	310	267	236	185	153	117	95.7	80.4	69.5	61.3	54.5	44.7	37.6	23.4	10.4	7.11	5.16
OPzS 600	448	427	381	336	301	234	194	149	125	109	95.9	85.4	76.7	63.0	53.2	33.5	14.7	10.1	7.30
OPzS 770	587	557	468	400	344	255	215	166	138	117	103	91.0	81.9	68.9	58.6	36.4	16.2	11.0	7.95
OPzS 800	669	626	517	428	366	273	231	178	147	126	110	98.0	87.8	73.3	61.9	38.4	16.8	11.4	8.25
OPzS 1000	785	737	623	518	439	337	286	222	185	159	140	125	113	93.2	78.3	48.2	21.2	14.5	10.5
OPzS 1200	943	883	761	653	563	447	384	314	271	237	213	194	177	149	127	78.4	33.8	23.3	16.9
OPzS 1500	1037	1016	936	878	813	694	612	491	418	365	326	294	267	226	195	126	53.5	36.2	26.1
OPzS 2000	1144	1119	1085	1034	972	836	721	574	488	423	374	334	304	256	219	139	61.9	42.4	30.8
OPzS 2500	1338	1309	1269	1210	1137	978	844	672	571	495	437	391	355	299	257	163	72.5	48.9	35.3
OPzS 3000	1659	1625	1497	1404	1301	1111	979	786	669	584	521	471	427	361	312	202	85.6	57.8	41.7

End of Discharge Voltage = 1.87					DISCHARGE CURRENT in A										25 °C					
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	48 hr	72 hr	100 hr	
OPzS 200	176	170	137	115	101	79.4	66.7	51.4	42.2	36.5	32.3	29.2	26.3	22.0	19.0	12.3	5.51	3.76	2.72	
OPzS 250	204	194	162	136	119	90.3	73.6	54.2	42.8	36.1	30.9	27.5	24.8	20.7	17.8	11.7	5.25	3.67	2.69	
OPzS 300	218	212	177	147	128	99.1	82.5	62.1	50.0	42.5	37.1	32.9	29.7	24.8	21.3	13.9	6.17	4.27	3.10	
OPzS 350	251	242	204	176	154	119	100	79.3	65.3	55.4	47.8	42.0	37.4	30.6	25.9	16.2	7.22	4.93	3.58	
OPzS 420	287	283	243	213	190	152	129	100	81.8	70.0	60.7	53.6	48.1	40.2	34.7	22.5	10.0	6.90	5.02	
OPzS 490	316	315	280	243	219	171	144	111	91.1	76.8	66.3	58.4	52.1	42.7	36.0	22.6	10.1	6.86	4.98	
OPzS 600	376	373	344	306	279	217	183	142	119	104	91.6	81.5	73.3	60.1	51.1	32.3	14.2	9.71	7.05	
OPzS 770	493	487	422	365	319	237	202	158	131	112	98.0	86.8	78.2	65.7	56.2	35.1	15.7	10.6	7.67	
OPzS 800	562	548	467	390	340	254	218	169	140	120	105	93.5	83.9	70.0	59.4	37.1	16.3	11.0	7.96	
OPzS 1000	659	645	563	472	407	313	269	212	176	152	134	120	108	88.9	75.1	46.5	20.5	14.0	10.2	
OPzS 1200	792	772	687	596	522	415	362	299	258	226	204	185	169	142	122	75.6	32.7	22.5	16.3	
OPzS 1500	871	888	845	801	754	645	576	468	398	349	311	281	255	215	187	122	51.6	34.9	25.2	
OPzS 2000	960	978	979	943	902	776	680	547	464	404	357	319	290	244	210	134	59.8	40.9	29.8	
OPzS 2500	1123	1145	1145	1104	1055	908	795	640	543	473	417	373	339	285	246	157	69.9	47.2	34.0	
OPzS 3000	1393	1421	1351	1281	1207	1032	922	749	637	558	498	449	408	344	299	195	82.6	55.7	40.2	

End of Discharge Voltage = 1.90					DISCHARGE CURRENT in A										25 °C					
Model	10'	15'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	48 hr	72 hr	100 hr	
OPzS 200	155	151	122	103	90.4	72.9	61.3	47.5	39.2	33.8	30.0	27.2	24.5	20.6	17.8	11.5	5.16	3.51	2.55	
OPzS 250	180	172	145	122	106	82.8	67.6	50.2	39.7	33.4	28.7	25.6	23.1	19.3	16.6	11.0	4.92	3.43	2.52	
OPzS 300	192	188	158	132	114	90.9	75.8	57.5	46.4	39.3	34.5	30.7	27.7	23.2	19.9	13.0	5.78	3.99	2.91	
OPzS 350	222	215	183	158	138	109	92.1	73.4	60.6	51.2	44.4	39.1	34.9	28.6	24.3	15.2	6.76	4.61	3.36	
OPzS 420	253	251	218	191	170	140	119	92.4	75.9	64.8	56.4	49.9	44.9	37.6	32.5	21.1	9.37	6.45	4.71	
OPzS 490	280	279	250	219	196	157	132	103	84.5	71.0	61.7	54.4	48.6	39.9	33.7	21.2	9.42	6.41	4.67	
OPzS 600	332	331	307	275	250	199	168	132	111	96.1	85.1	75.9	68.4	56.2	47.8	30.3	13.3	9.08	6.61	
OPzS 770	436	432	378	328	285	218	186	146	122	104	91.1	80.8	73.0	61.5	52.5	33.0	14.7	9.91	7.19	
OPzS 800	496	485	417	351	304	233	200	157	130	111	97.3	87.0	78.3	65.4	55.5	34.8	15.2	10.28	7.46	
OPzS 1000	582	572	503	424	364	287	247	196	163	140	124	111	101	83.2	70.3	43.6	19.2	13.1	9.53	
OPzS 1200	699	685	614	536	467	380	332	277	239	209	189	173	158	133	114	70.9	30.6	21.0	15.3	
OPzS 1500	769	788	755	720	675	591	530	433	369	323	289	261	238	201	175	114	48.4	32.7	23.6	
OPzS 2000	848	868	876	848	806	712	624	506	431	374	332	297	271	228	197	126	56.0	38.3	27.9	
OPzS 2500	992	1015	1024	993	944	833	730	592	504	438	388	347	317	267	230	147	65.5	44.1	31.9	
OPzS 3000	1230	1260	1208	1152	1080	946	847	693	591	516	463	418	381	322	280	182	77.4	52.1	37.7	



100710

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