



SACRED SUN TRACTION BATTERY

SHANDONG SACRED SUN POWER SOURCES CO.,LTD

PRODUCT DESIGN

1

Container and lid

Container and lid is PP material, based on the heat sealing technology to avoid leak of the electrolyte.

2

Negative plate

Thick with cage design for improved holding of the active material and high electrical conductivity.

3

Separator

Microporous polyethylene envelopes, to ensure high performance and complete insulation between positive and negative plates, while allowing the free flow of electrolyte throughout the cell.

4

Positive plate

Matured tubular positive plate technology, use imported non-woven calandria in all plate calandria.

5

Terminal

Positive and negative terminal with large copper core cast lead alloy to ensure the battery large current discharge performance.

6

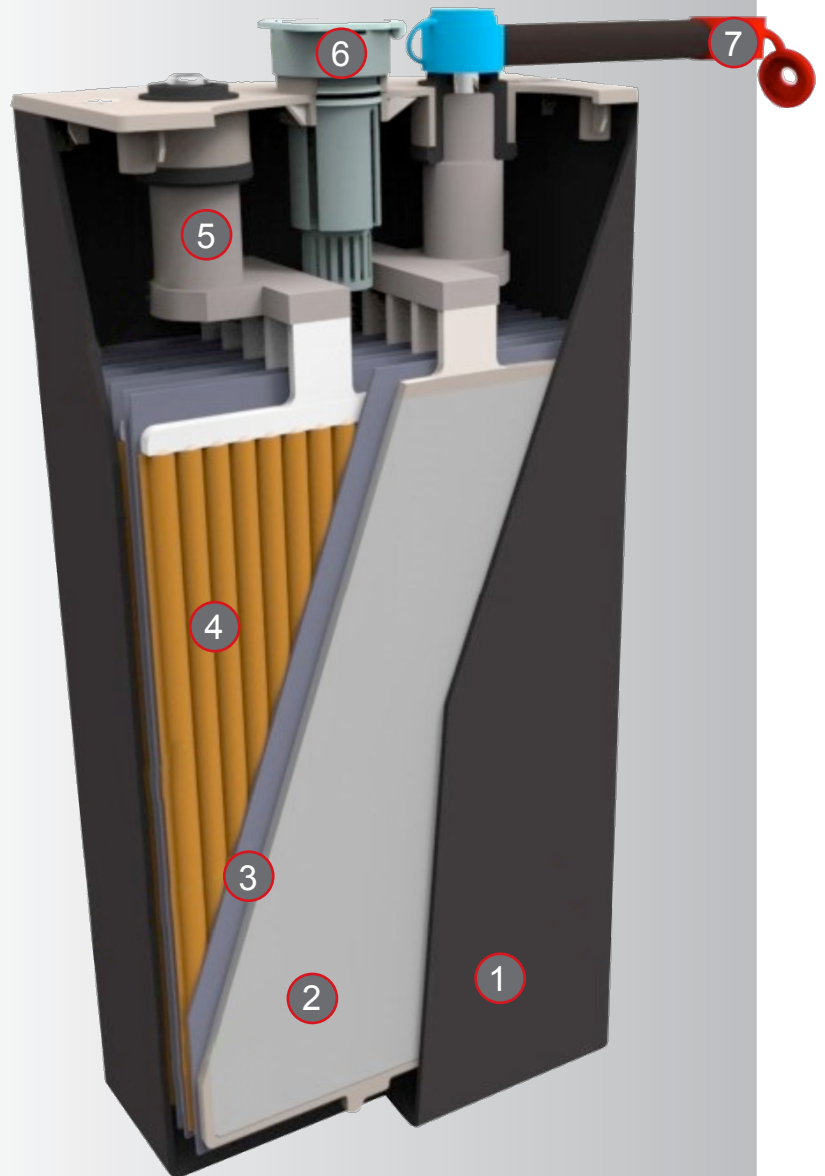
Safety valve

Unique mist collection reflux design, reduces water loss, and reduces maintenance frequency.

7

Flexible connector

With copper core to avoid loose caused by vibration and facilitate maintenance. Holes reserved on the protection cover of the connector for testing the battery voltage.



TECHNICAL PARAMETERS

PzS Battery

Battery Type	Nominal capacity and discharge rate in 5 hours		Nominal capacity and discharge rate in 6 hours		Maximum Dimension (mm)			Weight with Electrolyte (±5% Kg)
	Capacity (Ah)	Current (A)	Capacity (Ah)	Current (A)	Length	Width	Height	
2 PzS 160	160	32	168	28	47	198	435	10.0
3 PzS 240	240	48	252	42	65	198	435	14.2
4 PzS 320	320	64	336	56	83	198	435	18.4
5 PzS 400	400	80	420	70	101	198	435	22.6
6 PzS 480	480	96	504	84	119	198	435	26.7
7 PzS 560	560	112	588	98	137	198	435	31.3
8 PzS 640	640	128	672	112	155	198	435	35.1
9 PzS 720	720	144	756	126	174	198	435	39.3
10 PzS 800	800	160	840	140	192	198	435	43.4
2 PzS 180	180	36	189	31.5	47	198	505	12.3
3 PzS 270	270	54	284	47.3	65	198	505	17.1
4 PzS 360	360	72	378	63.0	83	198	505	21.9
5 PzS 450	450	90	473	78.8	101	198	505	26.7
6 PzS 540	540	108	567	94.5	119	198	505	31.5
7 PzS 630	630	126	662	110.3	137	198	505	36.3
8 PzS 720	720	144	756	126.0	155	198	505	41.2
9 PzS 810	810	162	851	141.8	174	198	505	46.1
10 PzS 900	900	180	945	157.5	192	198	505	50.9
2 PzS 230	230	46	242	40.3	47	198	575	13.6
3 PzS 345	345	69	362	60.4	65	198	575	19.4
4 PzS 460	460	92	483	80.5	83	198	575	25.2
5 PzS 575	575	115	604	100.6	101	198	575	31.1
6 PzS 690	690	138	725	120.8	119	198	575	36.9
7 PzS 805	805	161	845	140.9	137	198	575	42.7
8 PzS 920	920	184	966	161.0	155	198	575	48.6
9 PzS 1035	1035	207	1087	181.1	174	198	575	54.3
10 PzS 1150	1150	230	1208	201.3	192	198	575	60.2
2 PzS 250	250	50	263	43.8	47	198	600	14.7
3 PzS 375	375	75	394	65.6	65	198	600	20.5
4 PzS 500	500	100	525	87.5	83	198	600	26.5
5 PzS 625	625	125	656	109.4	101	198	600	32.3

TECHNICAL PARAMETERS

PzS Battery

Battery Type	Nominal capacity and discharge rate in 5 hours		Nominal capacity and discharge rate in 6 hours		Maximum Dimension (mm)			Weight with Electrolyte (±5% Kg)
	Capacity (Ah)	Current (A)	Capacity (Ah)	Current (A)	Length	Width	Height	
6 PzS 750	750	150	788	131.3	119	198	600	38.1
7 PzS 875	875	175	919	153.1	137	198	600	44.0
8 PzS 1000	1000	200	1050	175.0	155	198	600	49.8
9 PzS 1125	1125	225	1181	196.9	174	198	600	55.8
10 PzS 1250	1250	250	1313	218.8	192	198	600	61.6
2 PzS 280	280	56	294	49.0	47	198	715	19.1
3 PzS 420	420	84	441	73.5	65	198	715	25.4
4 PzS 560	560	112	588	98.0	83	198	715	32.9
5 PzS 700	700	140	735	122.5	101	198	715	39.9
6 PzS 840	840	168	882	147.0	119	198	715	47.2
7 PzS 980	980	196	1029	171.5	137	198	715	54.8
8 PzS 1120	1120	224	1176	196.0	155	198	715	62.3
9 PzS 1260	1260	252	1323	220.5	174	198	715	71.0
10 PzS 1400	1400	280	1470	245.0	192	198	715	76.7
2 PzS 310	310	62	326	54.3	47	198	750	18.1
3 PzS 465	465	93	488	81.4	65	198	750	25.1
4 PzS 620	620	124	651	108.5	83	198	750	32.2
5 PzS 775	775	155	814	135.6	101	198	750	39.2
6 PzS 930	930	186	977	162.8	119	198	750	46.2
7 PzS 1085	1085	217	1139	189.9	137	198	750	53.2
8 PzS 1240	1240	248	1302	217.0	155	198	750	60.3
9 PzS 1395	1395	279	1465	244.1	174	198	750	67.4
10 PzS 1550	1550	310	1628	271.3	192	198	750	74.5

TECHNICAL PARAMETERS

PzB Battery

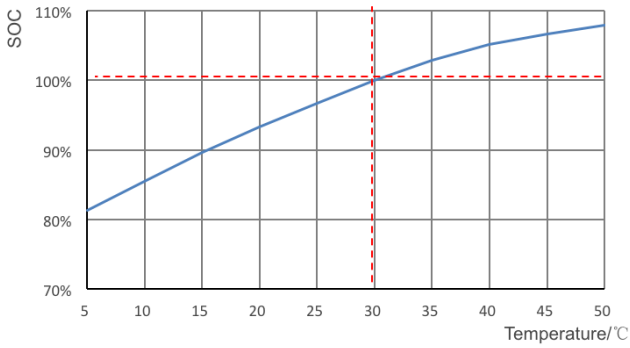
Battery Type	Nominal capacity and discharge rate in 5 hours		Nominal capacity and discharge rate in 6 hours		Maximum Dimension (mm)			Weight with Electrolyte (±5% Kg)
	Capacity (Ah)	Current (A)	Capacity (Ah)	Current (A)	Length	Width	Height	
2 PzB 110	110	22	116	19.25	45	157.5	420	7.8
3 PzB 165	165	33	173	28.88	61	157.5	420	10.2
4 PzB 220	220	44	231	38.50	77	157.5	420	12.9
5 PzB 275	275	55	289	48.13	93	157.5	420	15.3
6 PzB 330	330	66	347	57.75	109	157.5	420	18.3
7 PzB 385	385	77	404	67.38	125	157.5	420	21.1
8 PzB 440	440	88	462	77.00	141	157.5	420	23.8
9 PzB 495	495	99	520	86.63	157	157.5	420	26.5
10 PzB 550	550	110	578	96.25	173	157.5	420	29.3
2 PzB 130	130	26	137	22.75	45	157.5	484	8.7
3 PzB 195	195	39	205	34.13	61	157.5	484	11.8
4 PzB 260	260	52	273	45.50	77	157.5	484	14.9
5 PzB 325	325	65	341	56.88	93	157.5	484	17.7
6 PzB 390	390	78	410	68.25	109	157.5	484	21.1
7 PzB 455	455	91	478	79.63	125	157.5	484	24.3
8 PzB 520	520	104	546	91.00	141	157.5	484	27.4
9 PzB 585	585	117	614	102.38	157	157.5	484	30.5
10 PzB 650	650	130	683	113.75	173	157.5	484	33.6
2 PzB 140	140	28	147	24.50	45	157.5	518	9.6
3 PzB 210	210	42	221	36.75	61	157.5	518	12.8
4 PzB 290	290	56	305	50.75	77	157.5	518	16.2
5 PzB 365	365	70	383	63.88	89	157.5	518	19.3
6 PzB 430	430	84	452	75.25	109	157.5	518	23.1
7 PzB 500	500	98	525	87.50	125	157.5	518	26.6
8 PzB 570	570	112	599	99.75	141	157.5	518	30.0
9 PzB 640	640	126	672	112.00	157	157.5	518	34.4
10 PzB 710	710	140	746	124.25	173	157.5	518	36.8
2 PzB 150	150	30	158	26.25	45	157.5	541	9.9
3 PzB 225	225	45	236	39.38	61	157.5	541	13.5
4 PzB 300	300	60	315	52.50	77	157.5	541	17.1
5 PzB 375	375	75	394	65.63	93	157.5	541	20.3

TECHNICAL PARAMETERS

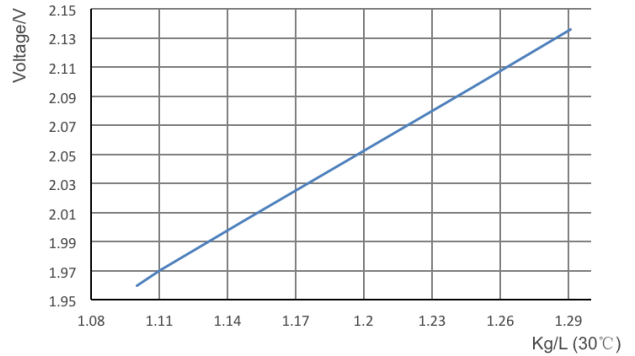
PzB Battery

Battery Type	Nominal capacity and discharge rate in 5 hours		Nominal capacity and discharge rate in 6 hours		Maximum Dimension (mm)			Weight with Electrolyte (±5% Kg)
	Capacity (Ah)	Current (A)	Capacity (Ah)	Current (A)	Length	Width	Height	
6 PzB 450	450	90	473	78.75	109	157.5	541	24.3
7 PzB 525	525	105	551	91.88	125	157.5	541	27.9
8 PzB 600	600	120	630	105.00	141	157.5	541	31.5
9 PzB 675	675	135	709	118.13	157	157.5	541	35.1
10 PzB 750	750	150	788	131.25	173	157.5	541	38.7
2 PzB 170	170	34	179	29.75	45	157.5	597	11.0
3 PzB 255	255	51	268	44.63	61	157.5	597	15.0
4 PzB 340	340	68	357	59.50	77	157.5	597	19.0
5 PzB 425	425	85	446	74.38	93	157.5	597	22.7
6 PzB 510	510	102	536	89.25	109	157.5	597	27.2
7 PzB 595	595	119	625	104.13	125	157.5	597	31.3
8 PzB 680	680	136	714	119.00	141	157.5	597	35.3
9 PzB 765	765	153	803	133.88	157	157.5	597	39.4
10 PzB 850	850	170	893	148.75	173	157.5	597	43.4
2 PzB 200	200	40	210	35.00	45	157.5	655	12.9
3 PzB 300	300	60	315	52.50	61	157.5	655	17.6
4 PzB 400	400	80	420	70.00	77	157.5	655	22.4
5 PzB 500	500	100	525	87.50	93	157.5	655	26.6
6 PzB 600	600	120	630	105.00	109	157.5	655	31.9
7 PzB 700	700	140	735	122.50	125	157.5	655	36.5
8 PzB 800	800	160	840	140.00	141	157.5	655	41.5
9 PzB 900	900	180	945	157.50	157	157.5	655	46.2
10 PzB 1000	1000	200	1050	175.00	173	157.5	655	51.0
2 PzB 210	210	42	221	36.75	45	157.5	710	13.8
3 PzB 315	315	63	331	55.13	61	157.5	710	18.8
4 PzB 420	420	84	441	73.50	77	157.5	710	24.0
5 PzB 525	525	105	551	91.88	93	157.5	710	28.4
6 PzB 630	630	126	662	110.25	109	157.5	710	34.0
7 PzB 735	735	147	772	128.63	125	157.5	710	39.1
8 PzB 840	840	168	882	147.00	141	157.5	710	44.3
9 PzB 945	945	189	992	165.38	157	157.5	710	49.3
10 PzB 1050	1050	210	1103	183.75	173	157.5	710	54.3

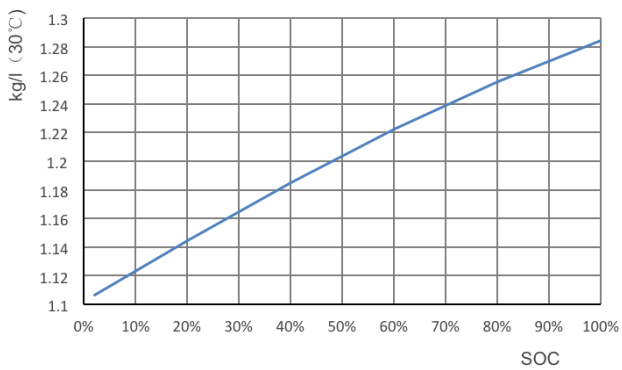
PERFORMANCE CURVES



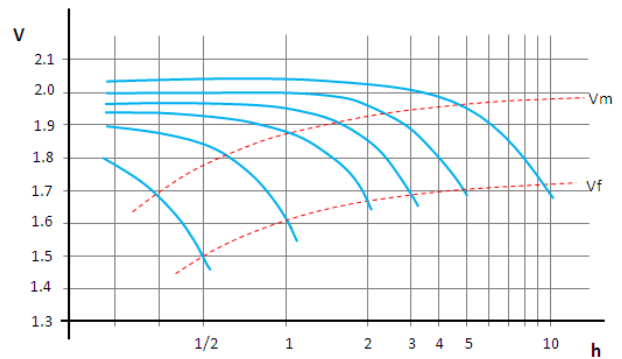
State of charge vs. Temperature curve



Voltage vs. Specific Gravity



Density vs. State of charge



Voltage vs. Discharge rate

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