



TRACTION BATTERY

PZS/PZB PRODUCT CATALOG



≥1500 Cycles
@75%DOD



Excellent
low-temperature
performance



Superior deep
discharge recovery ability



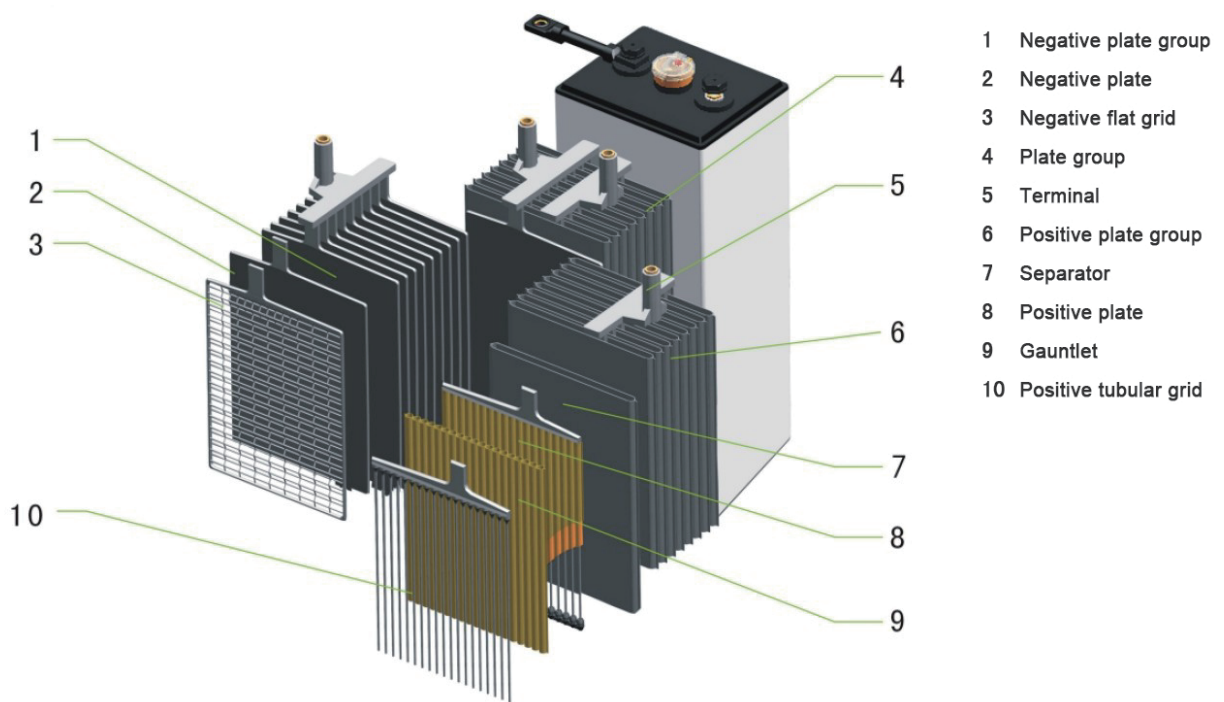
Automatic water
filling system(optional)

MAIN APPLICATIONS

Traction lead acid batteries, as the DC drive power of forklift, traction vehicles, transportation vehicles, tramcars etc., have a wide application in airport, station, port, vegetable and fruit markets and warehouses and so on. Also traction batteries, which are designed to be DC power of non-pollution transportation equipments, are widely used by buses, gymnastic and recreation locations. Traction batteries are fully compliant to BS standard or DIN standard. It meets the dimensions of the standards DIN/EN 60254-2 and IEC 60254-2.



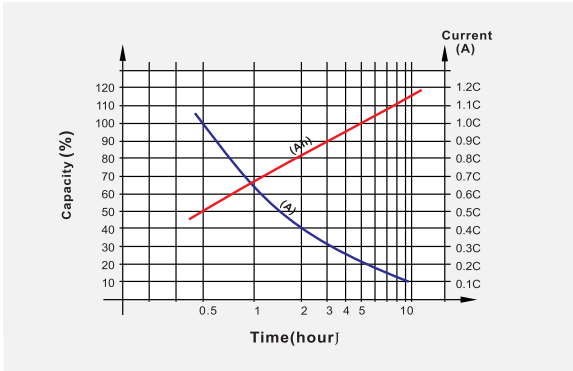
BATTERY STRUCTURE



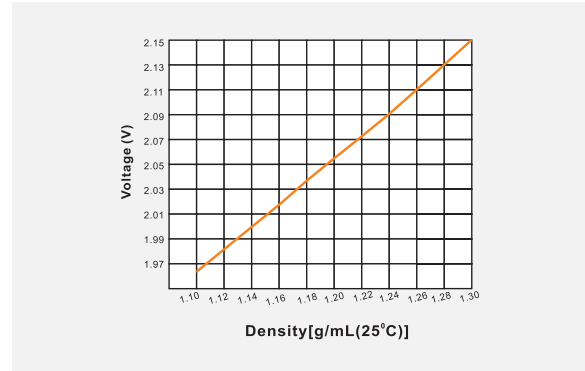
PERFORMANCE ADVANTAGES

- > Long service life
- > Exceptional cyclic performance and deep discharge recoverability
- > Reliable sealing structure without electrolyte leakage
- > Against short circuit design, maximum prevent battery short circuit
- > Automatic water refilling system and air circulation system (Optional)

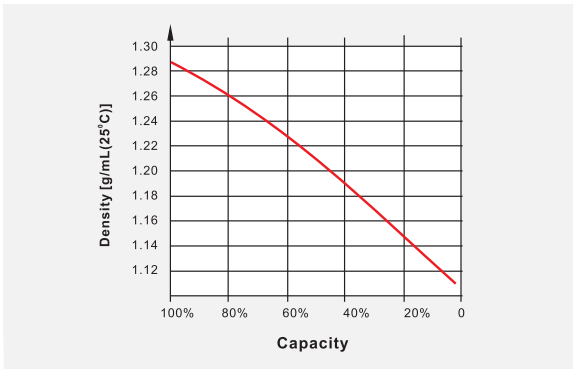
PERFORMANCE CHARACTERISTICS



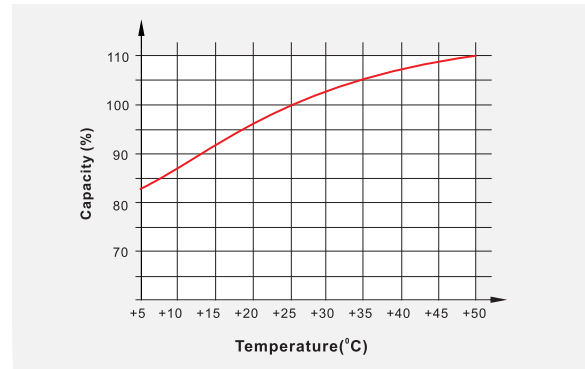
Discharge Characteristics



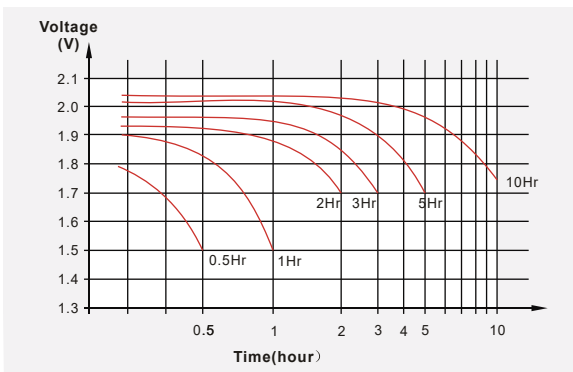
Density Effects in Relation to Voltage



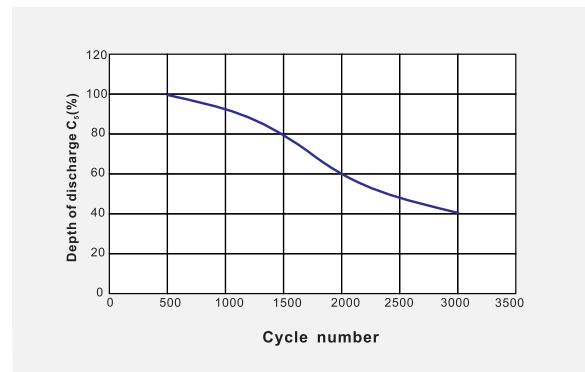
Density Effects in Relation to Capacity



Temperature Effects in Relation to Battery Capacity



Discharge Characteristics



Cycle Life in Relation to Depth of Discharge

SPECIFICATION

BS Series Battery

Model	Rated Voltage (V)	Approx Dimension(mm)				Approx Weight	Discharge rate			
							5hr, F.V=1.70V/cell		0.5hr, F.V=1.50V/cell	
		L	W	H	TH		kg	Current(A)	Capacity(Ah)	Current(A)
2PzB120	2	45	158	401	433	7.9	24.0	120	120	24.0
2PzB140	2	45	158	456	488	9.1	28.0	140	140	28.0
3PzB150	2	61	158	402	434	10.2	30.0	150	150	30.0
2PzB160C	2	45	158	554	586	10.5	32.0	160	160	32.0
3PzB165G	2	61	158	402	434	10.5	33.0	165	165	33.0
3PzB165C	2	61	158	392	424	10.2	33.0	165	165	33.0
2PzB180C	2	45	158	620	652	11.7	36.0	180	180	36.0
3PzB195G	2	61	158	457	489	12	39.0	195	195	39.0
3PzB195C	2	61	158	447	479	11.7	39.0	195	195	39.0
4PzB200C	2	77	158	380	412	12.2	40.0	200	200	40.0
3PzB210	2	61	158	487	519	12.6	42.0	210	210	42.0
3PzB210C	2	61	158	480	512	12.4	42.0	210	210	42.0
4PzB220G	2	77	158	402	434	13.4	44.0	220	220	44.0
4PzB220C	2	77	158	392	424	13.1	44.0	220	220	44.0
3PzB240C	2	61	158	554	586	14.7	48.0	240	240	48.0
4PzB260C	2	77	158	447	479	15.2	52.0	260	260	52.0
3PzB270C	2	61	158	620	652	16.3	54.0	270	270	54.0
5PzB275G	2	93	158	402	434	16.3	55.0	275	275	55.0
5PzB275C	2	93	158	392	424	15.9	55.0	275	275	55.0
4PzB280C	2	77	158	480	512	15.9	56.0	280	280	56.0
5PzB280C	2	89	158	487	519	16.8	56.0	280	280	56.0
3PzB300C	2	61	158	680	712	18.2	60.0	300	300	60.0
6PzB300G	2	109	158	385	417	17.7	60.0	300	300	60.0
6PzB300C	2	109	158	380	412	17.4	60.0	300	300	60.0
5PzB325G	2	89	158	457	489	18.9	65.0	325	325	65.0
5PzB325C	2	89	158	447	479	18.5	65.0	325	325	65.0
5PzB350C	2	93	158	480	512	19.4	70.0	350	350	70.0
7PzB350C	2	125	158	380	412	20.0	70.0	350	350	70.0
4PzB360	2	77	158	554	586	19.9	72.0	360	360	72.0
5PzB375	2	89	158	495	527	21.4	75.0	375	375	75.0
8PzB384	2	141	158	380	412	21.9	76.8	384	384	76.8
7PzB385G	2	125	158	402	434	22.1	77.0	385	385	77.0
7PzB385C	2	125	158	392	424	21.6	77.0	385	385	77.0
6PzB390G	2	109	158	457	489	22.3	78.0	390	390	78.0
6PzB390C	2	109	158	447	479	21.9	78.0	390	390	78.0
4PzB400C	2	77	158	680	712	23.5	80.0	400	400	80.0
5PzB400C	2	93	158	554	586	22.9	80.0	400	400	80.0
8PzB400G	2	141	158	385	417	23	80.0	400	400	80.0
8PzB400C	2	141	158	380	412	22.6	80.0	400	400	80.0
6PzB420C	2	109	158	480	512	23.0	84.0	420	420	84.0
9PzB432	2	157	158	380	412	24.9	86.4	432	432	86.4
8PzB440G	2	141	158	402	434	25	88.0	440	440	88.0
8PzB440C	2	141	158	392	424	24.4	88.0	440	440	88.0
5PzB450C	2	93	158	620	652	25.6	90.0	450	450	90.0
9PzB450G	2	157	158	385	417	25.6	90.0	450	450	90.0
9PzB450C	2	157	158	380	412	25.2	90.0	450	450	90.0
10PzB480	2	173	158	346	378	27.6	96.0	480	480	96.0
6PzB480C	2	109	158	554	586	27.1	96.0	480	480	96.0

BS Series Battery

Model	Rated Voltage (V)	Approx Dimension(mm)				Approx Weight kg	Discharge rate			
							5hr, F.V=1.70V/cell		0.5hr, F.V=1.50V/cell	
		L	W	H	TH		Current(A)	Capacity(Ah)	Current(A)	Capacity(Ah)
8PzB480	2	141	158	426	458	27.1	96.0	480	480	96.0
7PzB490C	2	125	158	480	512	26.5	98.0	490	490	98.0
10PzB500G	2	173	158	385	417	28.9	100.0	500	500	100.0
10PzB500C	2	173	158	380	412	28.4	100.0	500	500	100.0
5PzB500C	2	93	158	680	712	28.6	100.0	500	500	100.0
8PzB520G	2	141	158	457	489	29	104.0	520	520	104.0
8PzB520C	2	141	158	447	479	28.5	104.0	520	520	104.0
7PzB525	2	125	158	495	527	28.5	105.0	525	525	105.0
6PzB540C	2	109	158	620	652	30.3	108.0	540	540	108.0
9PzB540	2	157	158	402	434	29.6	108.0	540	540	108.0
10PzB550G	2	173	158	402	434	30.8	110.0	550	550	110.0
10PzB550EC	2	173	158	392	424	30.1	110.0	550	550	110.0
10PzB550C	2	173	158	392	424	30.7	110.0	550	550	110.0
7PzB560C	2	125	158	554	586	31.2	112.0	560	560	112.0
9PzB585C	2	157	158	447	479	32.3	117.0	585	585	117.0
6PzB600C	2	109	158	680	712	33.6	120.0	600	600	120.0
8PzB600	2	141	158	495	527	32.3	120.0	600	600	120.0
7PzB630C	2	125	158	620	652	34.9	126.0	630	630	126.0
10PzB650G	2	173	158	457	489	36.2	130.0	650	650	130.0
10PzB650C	2	173	158	447	479	35.6	130.0	650	650	130.0
10PzB700C	2	173	158	480	512	37.6	140.0	700	700	140.0
7PzB700C	2	125	158	680	712	38.9	140.0	700	700	140.0

DIN Series Battery

Model	Rated Voltage (V)	Approx Dimension(mm)				Approx Weight kg	Discharge rate			
							5hr, F.V=1.70V/cell		0.5hr, F.V=1.50V/cell	
		L	W	H	TH		Current(A)	Capacity(Ah)	Current(A)	Capacity(Ah)
2PzS200	2	47	198	569	601	13	40.0	200	200	40.0
2PzS200C	2	47	198	569	601	12.6	40.0	200	200	40.0
3PzS210G	2	65	198	404	436	12.9	42.0	210	210	42.0
3PzS210	2	65	198	404	436	13.2	42.0	210	210	42.0
2PzS210	2	47	198	513	545	12.8	42.0	210	210	42.0
2PzS230	2	47	198	543	575	13.7	46.0	230	230	46.0
3PzS240G	2	65	198	469	501	14.2	48.0	240	240	48.0
3PzS240	2	65	198	469	501	14.8	48.0	240	240	48.0
2PzS250	2	47	198	574	606	14.4	50.0	250	250	50.0
3PzS270	2	65	198	469	501	15.8	54.0	270	270	54.0
4PzS280G	2	83	198	404	436	16.6	56.0	280	280	56.0
3PzS300C	2	65	198	569	601	17.9	60.0	300	300	60.0
4PzS320	2	83	198	404	436	17.8	64.0	320	320	64.0
3PzS345	2	65	198	543	575	19.6	69.0	345	345	69.0
4PzS360	2	83	198	469	501	20.5	72.0	360	360	72.0
3PzS375	2	65	198	574	606	20.5	75.0	375	375	75.0
5PzS400	2	101	198	404	436	21.8	80.0	400	400	80.0
4PzS400C	2	83	198	569	601	23.2	80.0	400	400	80.0
4PzS400	2	83	198	569	601	24	80.0	400	400	80.0
6PzS420G	2	119	198	404	436	24.1	84.0	420	420	84.0
3PzS420	2	65	198	688	720	24.4	84.0	420	420	84.0
4PzS440	2	83	198	536	568	25.4	88.0	440	440	88.0

DIN Series Battery

Model	Rated Voltage (V)	Approx Dimension(mm)				Approx Weight kg	Discharge rate			
							5hr, F.V=1.70V/cell		0.5hr, F.V=1.50V/cell	
		L	W	H	TH		Current(A)	Capacity(Ah)	Current(A)	Capacity(Ah)
3PzS450	2	65	198	720	752	25.3	90.0	450	450	90.0
4PzS460	2	83	198	543	575	25.4	92.0	460	460	92.0
6PzS480	2	119	198	404	436	25.9	96.0	480	480	96.0
4PzS480H	2	83	198	569	601	26.3	96.0	480	480	96.0
4PzS480	2	83	198	643	675	27.8	96.0	480	480	96.0
5PzS500C	2	101	198	569	601	28.5	100.0	500	500	100.0
5PzS500	2	101	198	569	601	29.5	100.0	500	500	100.0
4PzS500	2	83	198	643	675	28.9	100.0	500	500	100.0
4PzS560	2	83	198	688	720	31.8	112.0	560	560	112.0
5PzS575	2	101	198	543	575	31.3	115.0	575	575	115.0
6PzS600	2	119	198	569	601	33.8	120.0	600	600	120.0
5PzS600C	2	101	198	643	675	34.0	120.0	600	600	120.0
5PzS600H	2	101	198	569	601	32.3	120.0	600	600	120.0
4PzS600	2	83	198	720	752	32.8	120.0	600	600	120.0
9PzS630G	2	173	198	401	433	35.8	126.0	630	630	126.0
9PzS630	2	173	198	404	436	36.9	126.0	630	630	126.0
5PzS650	2	101	198	682	714	36.2	130.0	650	650	130.0
7PzS700C	2	137	198	569	601	39.1	140.0	700	700	140.0
5PzS700	2	101	198	688	720	39.1	140.0	700	700	140.0
8PzS720	2	155	198	469	501	39.1	144.0	720	720	144.0
6PzS720	2	119	198	569	601	38.4	144.0	720	720	144.0
5PzS750	2	101	198	720	752	40.4	150.0	750	750	150.0
7PzS840	2	137	198	569	601	44.4	168.0	840	840	168.0
8PzS920	2	155	198	543	575	50	184.0	920	920	184.0
8PzS1240	2	155	198	720	752	63.7	248.0	1240	1240	248.0
10PzS1550	2	191	198	720	752	79.1	310.0	1550	1550	310.0

ACCESSORY

Anderson plugs and cables



Plugs Rules:
175A/600V for 25~50mm² wire
350A/600V for 50~95mm² wire

Rema plugs and cables



Plugs Rules:
80A/150V for 25~35mm² wire
160A/150V for 35~50mm² wire
320A/150V for 50~95mm² wire

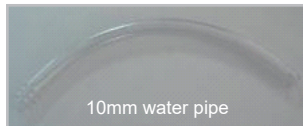
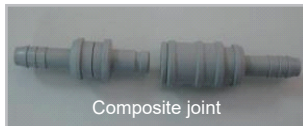
Water Monitor



Water monitor connector:

Capacitive battery electrolyte level sensor with clearly visible green light indicates electrolyte at proper specified level. Flashing red light indicates the electrolyte level is below minimum and battery needs to be refilled with demineralised water to avoid permanent damage of the battery.

■ Automatic water filling system (optional match)



The Automatic water filling system also need several connection parts including:

- > Flow indicate
- > Pipe 6mm
- > Pipe 10mm
- > Tee-pipe (T-6-10-6)
- > Injection cap
- > End plug

■ Connector



■ Injection cap



■ Battery Box for Traction Battery



Arrangement pattern:

- 12 V (6pcs): 1x6、2x3、3x2
- 24V (12pcs): 1x12、2x6、3x4、4x3、.....
- 36V (18pcs): 2x9、3x6、4x5、5x4、.....
- 48V (24pcs): 2x12、3x8、4x6、5x5、.....

Using the polypropylene hollow sheet can increase the resiliency between battery and battery and metal box, which ensure the tight installation between batteries to avoid damage on battery. It can be designed according to customer's requirements.

ISO14001 ISO9001 ISO45001



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