



TRACTION BATTERY

PZS/PZB PRODUCT CATALOG



≥1500 Cycles
@75%DOD



Excellent
low-temperature
performance



Superior deep
discharge recovery ability



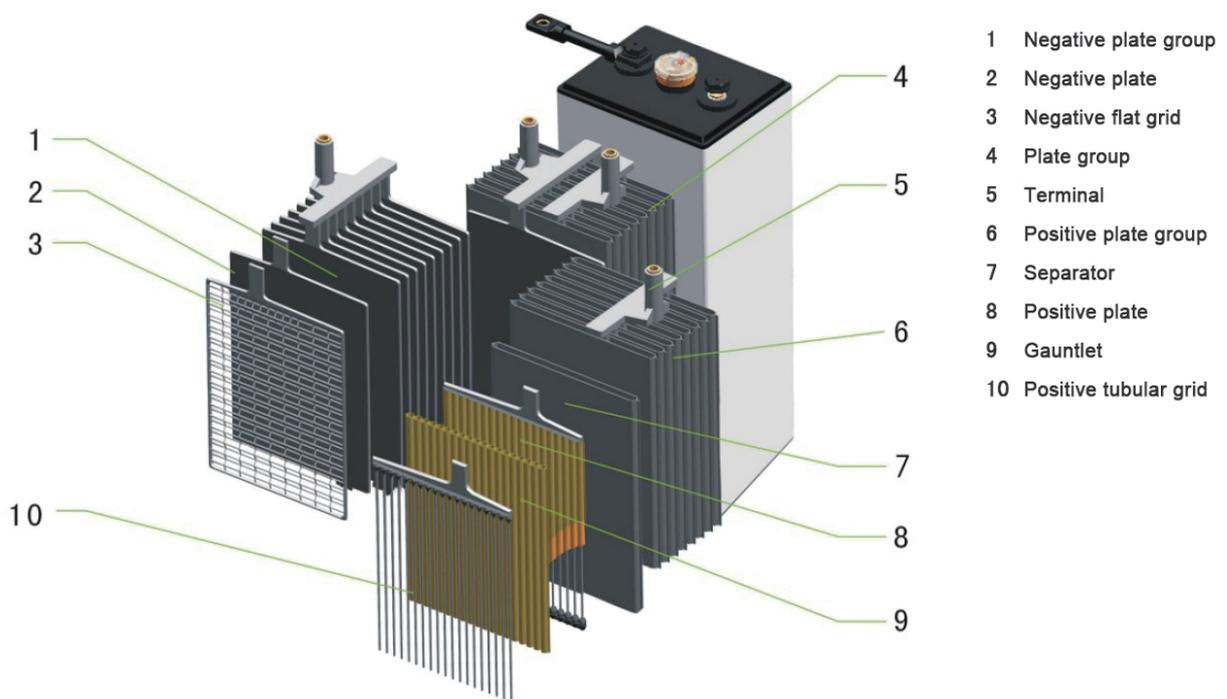
Automatic water
filling system(optional)

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.



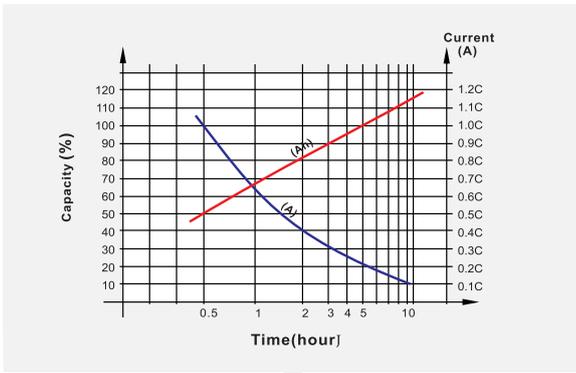
BATTERY STRUCTURE



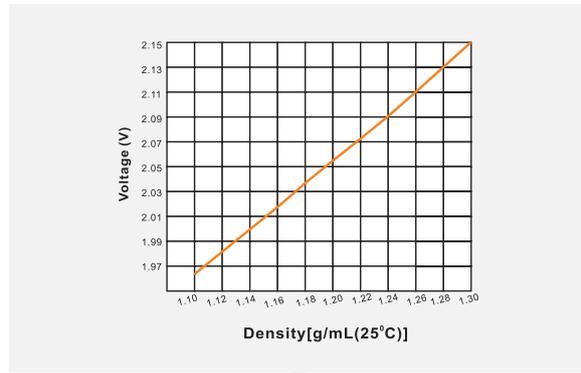
PERFORMANCE ADVANTAGES

- > 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)

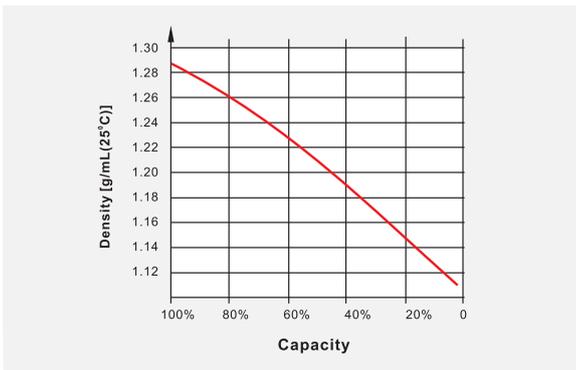
PERFORMANCE CHARACTERISTICS



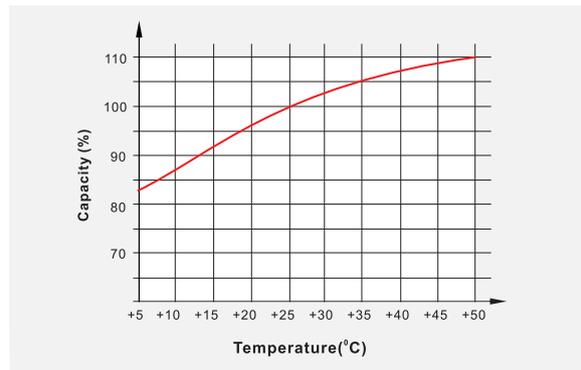
Discharge Characteristics



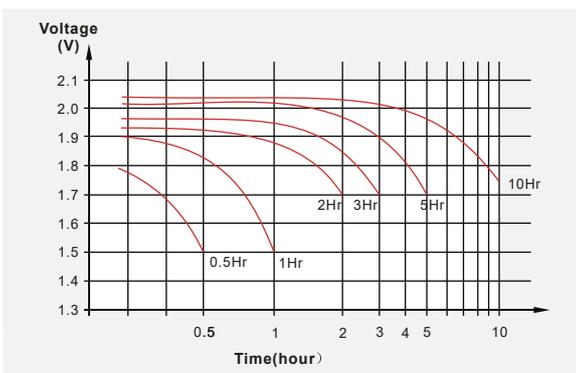
Density Effects in Relation to Voltage



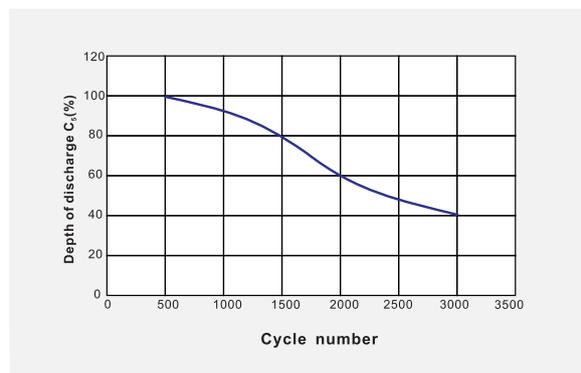
Density Effects in Relation to Capacity



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 kg | Discharge rate | | | |
|----------|-------------------|----------------------|-----|-----|-----|---------------------|---------------------|--------------|-----------------------|--------------|
| | | L | W | H | TH | | 5hr, F.V=1.70V/cell | | 0.5hr, F.V=1.50V/cell | |
| | | | | | | | Current(A) | Capacity(Ah) | Current(A) | Capacity(Ah) |
| 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 | 200 | 200 | 40 |
| 2PzS200C | 2 | 47 | 198 | 569 | 601 | 12.6 | 40 | 200 | 200 | 40 |
| 3PzS210G | 2 | 65 | 198 | 404 | 436 | 12.9 | 42 | 210 | 210 | 42 |
| 3PzS210 | 2 | 65 | 198 | 404 | 436 | 13.2 | 42 | 210 | 210 | 42 |
| 2PzS210 | 2 | 47 | 198 | 513 | 545 | 12.8 | 42 | 210 | 210 | 42 |
| 2PzS230 | 2 | 47 | 198 | 543 | 575 | 13.7 | 46 | 230 | 230 | 46 |
| 3PzS240G | 2 | 65 | 198 | 469 | 501 | 14.2 | 48 | 240 | 240 | 48 |
| 3PzS240 | 2 | 65 | 198 | 469 | 501 | 14.8 | 48 | 240 | 240 | 48 |
| 2PzS250 | 2 | 47 | 198 | 574 | 606 | 14.4 | 50 | 250 | 250 | 50 |
| 3PzS270 | 2 | 65 | 198 | 469 | 501 | 15.8 | 54 | 270 | 270 | 54 |
| 4PzS280G | 2 | 83 | 198 | 404 | 436 | 16.6 | 56 | 280 | 280 | 56 |
| 3PzS300C | 2 | 65 | 198 | 569 | 601 | 17.9 | 60 | 300 | 300 | 60 |
| 4PzS320 | 2 | 83 | 198 | 404 | 436 | 17.8 | 64 | 320 | 320 | 64 |
| 3PzS345 | 2 | 65 | 198 | 543 | 575 | 19.6 | 69 | 345 | 345 | 69 |
| 4PzS360 | 2 | 83 | 198 | 469 | 501 | 20.5 | 72 | 360 | 360 | 72 |
| 3PzS375 | 2 | 65 | 198 | 574 | 606 | 20.5 | 75 | 375 | 375 | 75 |
| 5PzS400 | 2 | 101 | 198 | 404 | 436 | 21.8 | 80 | 400 | 400 | 80 |
| 4PzS400C | 2 | 83 | 198 | 569 | 601 | 23.2 | 80 | 400 | 400 | 80 |
| 4PzS400 | 2 | 83 | 198 | 569 | 601 | 24 | 80 | 400 | 400 | 80 |
| 6PzS420G | 2 | 119 | 198 | 404 | 436 | 24.1 | 84 | 420 | 420 | 84 |
| 3PzS420 | 2 | 65 | 198 | 688 | 720 | 24.4 | 84 | 420 | 420 | 84 |
| 4PzS440 | 2 | 83 | 198 | 536 | 568 | 25.4 | 88 | 440 | 440 | 88 |

DIN 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) |
| 3PzS450 | 2 | 65 | 198 | 720 | 752 | 25.3 | 90 | 450 | 450 | 90 |
| 4PzS460 | 2 | 83 | 198 | 543 | 575 | 25.4 | 92 | 460 | 460 | 92 |
| 6PzS480 | 2 | 119 | 198 | 404 | 436 | 25.9 | 96 | 480 | 480 | 96 |
| 4PzS480H | 2 | 83 | 198 | 569 | 601 | 26.3 | 96 | 480 | 480 | 96 |
| 4PzS480 | 2 | 83 | 198 | 643 | 675 | 27.8 | 96 | 480 | 480 | 96 |
| 5PzS500C | 2 | 101 | 198 | 569 | 601 | 28.5 | 100 | 500 | 500 | 100 |
| 5PzS500 | 2 | 101 | 198 | 569 | 601 | 29.5 | 100 | 500 | 500 | 100 |
| 4PzS500 | 2 | 83 | 198 | 643 | 675 | 28.9 | 100 | 500 | 500 | 100 |
| 4PzS560 | 2 | 83 | 198 | 688 | 720 | 31.8 | 112 | 560 | 560 | 112 |
| 5PzS575 | 2 | 101 | 198 | 543 | 575 | 31.3 | 115 | 575 | 575 | 115 |
| 6PzS600 | 2 | 119 | 198 | 569 | 601 | 33.8 | 120 | 600 | 600 | 120 |
| 5PzS600 | 2 | 101 | 198 | 643 | 675 | 34.0 | 120 | 600 | 600 | 120 |
| 5PzS600H | 2 | 101 | 198 | 569 | 601 | 32.3 | 120 | 600 | 600 | 120 |
| 4PzS600 | 2 | 83 | 198 | 720 | 752 | 32.8 | 120 | 600 | 600 | 120 |
| 9PzS630G | 2 | 173 | 198 | 401 | 433 | 35.8 | 126 | 630 | 630 | 126 |
| 9PzS630 | 2 | 173 | 198 | 404 | 436 | 36.9 | 126 | 630 | 630 | 126 |
| 5PzS650 | 2 | 101 | 198 | 682 | 714 | 36.2 | 130 | 650 | 650 | 130 |
| 7PzS700 | 2 | 137 | 198 | 569 | 601 | 39.1 | 140 | 700 | 700 | 140 |
| 5PzS700 | 2 | 101 | 198 | 688 | 720 | 39.1 | 140 | 700 | 700 | 140 |
| 8PzS720 | 2 | 155 | 198 | 469 | 501 | 39.1 | 144 | 720 | 720 | 144 |
| 6PzS720 | 2 | 119 | 198 | 569 | 601 | 38.4 | 144 | 720 | 720 | 144 |
| 5PzS750 | 2 | 101 | 198 | 720 | 752 | 40.4 | 150 | 750 | 750 | 150 |
| 7PzS840 | 2 | 137 | 198 | 569 | 601 | 44.4 | 168 | 840 | 840 | 168 |
| 8PzS920 | 2 | 155 | 198 | 543 | 575 | 50 | 184 | 920 | 920 | 184 |
| 8PzS1240 | 2 | 155 | 198 | 720 | 752 | 63.7 | 248 | 1240 | 1240 | 248 |
| 10PzS1550 | 2 | 191 | 198 | 720 | 752 | 79.1 | 310 | 1550 | 1550 | 310 |

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

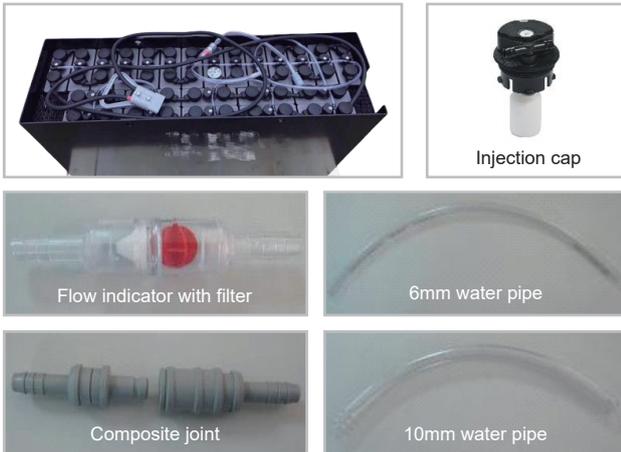
Water Monitor



Water monitor connector:

Capacitive battery electrolyte level sensor with clearly visible green light indicates electrolyte at proper specified level. Flashing red light indicates that 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
- > Pipe6mm
- > Pipe10mm
- > 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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