



## INDUSTRIAL BATTERIES & CHARGERS

Voltage (DC) From 12 Volts - 160 Volts

Capacity From 80 Amps - 1500 Amps



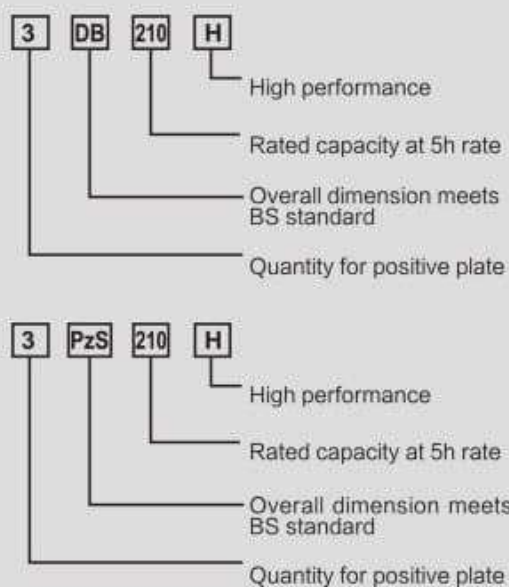
Lead Acid  
Traction Batteries



Lithium Batteries



Battery Chargers



Please refer to the product spectrum for specific models and sizes

### (C5)

Relationship between different discharge rate and rated capacity

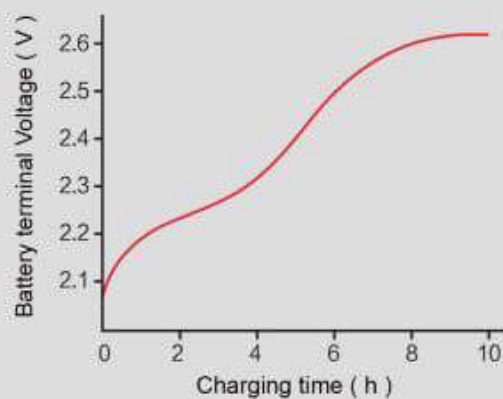
3h (3HR) = 0.85C5 Capacity C3HR=0.85C5

1h (1HR) = 0.6C5 Capacity C1HR=0.6C5

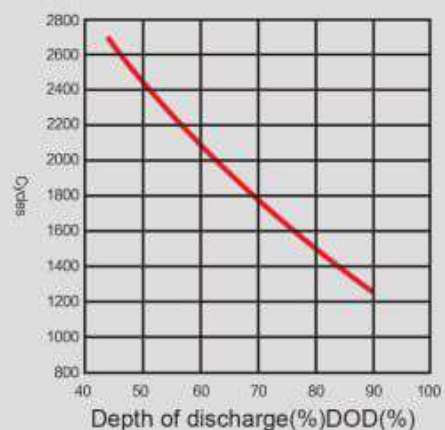
0.5h (0.5HR) = 0.5C5 Capacity C0.5HR=0.5C5

Remarks: C5 means 5 hours rate capacity(battery nominal capacity)

Charging Voltage VS Charging Time

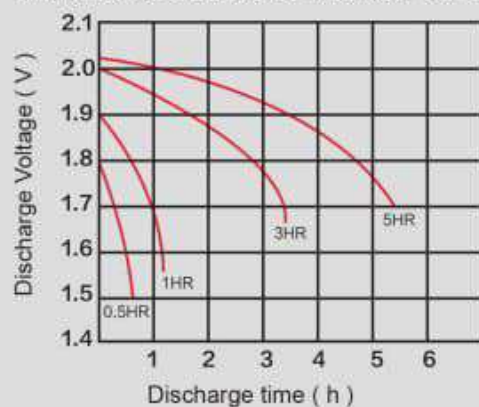


Curve for life cycles VS DOD

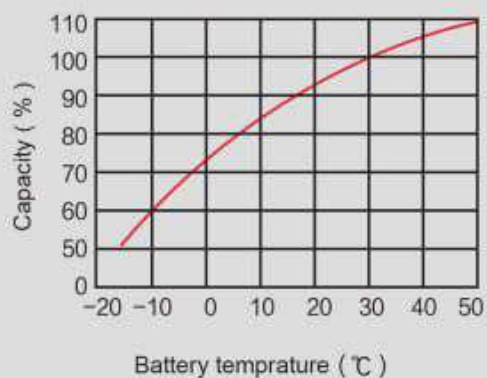


Note: The service life of 300 cycles is one year

Different Hour Discharge Rate Feature Curve



Temperature VS Capacity (5HR)





## Main Technical Features

High quality flooded lead-acid battery

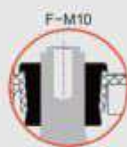
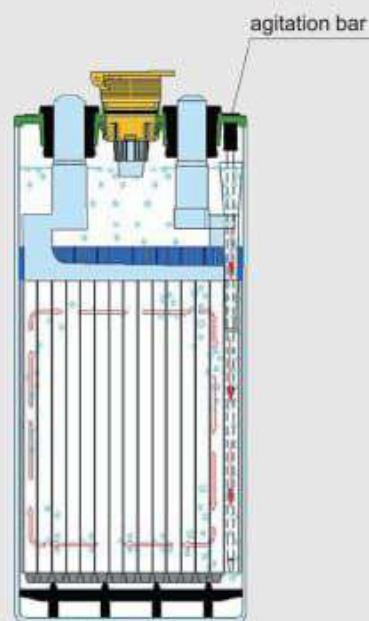
High performance tubular positive plates

≥ 1500 times cycle life

Meet IEC 60254 standard

CE, ISO9001 & ISO14001

Auto-water filling system and electrolyte agitation system is optional



25Nm



Tubular plate



Optional Explosion-proof series



Product can be recycled



## BS Standard DB Series Lead-Acid Traction Battery

| BS Standard        |                              |                     |                |                    |                              |                     |                |                    |                              |                     |                |                    |                              |                     |                |
|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|
| 50AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 55AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 60AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 65AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) |
| Height<br>H1=359mm |                              |                     |                | Height<br>H1=393mm |                              |                     |                | Height<br>H1=410mm |                              |                     |                | Height<br>H1=451mm |                              |                     |                |
| Height<br>H2=390mm |                              |                     |                | Height<br>H2=424mm |                              |                     |                | Height<br>H2=441mm |                              |                     |                | Height<br>H2=482mm |                              |                     |                |
| 2DB100H            | 100                          | 45                  | 5.3            | 2DB110H            | 110                          | 45                  | 5.8            | 2DB120H            | 120                          | 45                  | 6.1            | 2DB130H            | 130                          | 45                  | 6.6            |
| 3DB150H            | 150                          | 61                  | 7.4            | 3DB165H            | 165                          | 61                  | 8              | 3DB180H            | 180                          | 61                  | 8.6            | 3DB195H            | 195                          | 61                  | 9.2            |
| 4DB200H            | 200                          | 77                  | 9.3            | 4DB220H            | 220                          | 77                  | 10.3           | 4DB240H            | 240                          | 77                  | 11             | 4DB260H            | 260                          | 77                  | 11.8           |
| 5DB250H            | 250                          | 93                  | 11.6           | 5DB275H            | 275                          | 93                  | 12.6           | 5DB300H            | 300                          | 93                  | 13.5           | 5DB325H            | 325                          | 93                  | 14.5           |
| 6DB300H            | 300                          | 109                 | 13.7           | 6DB330H            | 330                          | 109                 | 14.8           | 6DB360H            | 360                          | 109                 | 15.9           | 6DB390H            | 390                          | 109                 | 17.1           |
| 7DB350H            | 350                          | 125                 | 15.8           | 7DB385H            | 385                          | 125                 | 17.1           | 7DB420H            | 420                          | 125                 | 18.4           | 7DB455H            | 455                          | 125                 | 19.7           |
| 8DB400H            | 400                          | 141                 | 17.9           | 8DB440H            | 440                          | 141                 | 19.4           | 8DB480H            | 480                          | 141                 | 20.9           | 8DB520H            | 520                          | 141                 | 22.3           |
| 9DB450H            | 450                          | 157                 | 20             | 9DB495H            | 495                          | 157                 | 21.6           | 9DB540H            | 540                          | 157                 | 23.3           | 9DB585H            | 585                          | 157                 | 24.9           |
| 10DB500H           | 500                          | 173                 | 22.6           | 10DB550H           | 550                          | 173                 | 24.5           | 10DB600H           | 600                          | 173                 | 26.3           | 10DB650H           | 650                          | 173                 | 28.2           |
| 11DB550H           | 550                          | 189                 | 24.7           | 11DB605H           | 605                          | 189                 | 26.8           | 11DB660H           | 660                          | 189                 | 28.8           | 11DB715H           | 715                          | 189                 | 30.8           |
| 12DB600H           | 600                          | 205                 | 26.8           | 12DB660H           | 660                          | 205                 | 29             | 12DB720H           | 720                          | 205                 | 31.2           | 12DB780H           | 780                          | 205                 | 33.4           |

| 70AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 75AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 80AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 85AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) |
|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|
| Height<br>H1=499mm |                              |                     |                | Height<br>H1=493mm |                              |                     |                | Height<br>H1=552mm |                              |                     |                | Height<br>H1=552mm |                              |                     |                |
| Height<br>H2=500mm |                              |                     |                | Height<br>H2=524mm |                              |                     |                | Height<br>H2=563mm |                              |                     |                | Height<br>H2=563mm |                              |                     |                |
| 2DB140H            | 140                          | 45                  | 7              | 2DB150H            | 150                          | 45                  | 7.5            | 2DB160H            | 160                          | 45                  | 8.2            | 2DB170H            | 170                          | 45                  | 8.5            |
| 3DB210H            | 210                          | 61                  | 9.8            | 3DB225H            | 225                          | 61                  | 10.4           | 3DB240H            | 240                          | 61                  | 11.4           | 3DB255H            | 255                          | 61                  | 11.8           |
| 4DB280H            | 280                          | 77                  | 12.6           | 4DB300H            | 300                          | 77                  | 13.4           | 4DB320H            | 320                          | 77                  | 14.5           | 4DB340H            | 340                          | 77                  | 15.1           |
| 5DB350H            | 350                          | 93                  | 15.5           | 5DB375H            | 375                          | 93                  | 16.4           | 5DB400H            | 400                          | 93                  | 17.7           | 5DB425H            | 425                          | 93                  | 18.5           |
| 6DB420H            | 420                          | 109                 | 18.3           | 6DB450H            | 450                          | 109                 | 19.4           | 6DB480H            | 480                          | 109                 | 20.9           | 6DB510H            | 510                          | 109                 | 21.8           |
| 7DB490H            | 490                          | 125                 | 21.1           | 7DB525H            | 525                          | 125                 | 22.4           | 7DB560H            | 560                          | 125                 | 24.1           | 7DB595H            | 595                          | 125                 | 25.1           |
| 8DB560H            | 560                          | 141                 | 23.9           | 8DB600H            | 600                          | 141                 | 25.4           | 8DB640H            | 640                          | 141                 | 27.3           | 8DB680H            | 680                          | 141                 | 28.4           |
| 9DB630H            | 630                          | 157                 | 26.7           | 9DB675H            | 675                          | 157                 | 28.4           | 9DB720H            | 720                          | 157                 | 31.1           | 9DB765H            | 765                          | 157                 | 32.4           |
| 10DB700H           | 700                          | 173                 | 30.2           | 10DB750H           | 750                          | 173                 | 32             | 10DB800H           | 800                          | 173                 | 34.3           | 10DB850H           | 850                          | 173                 | 35.7           |
| 11DB770H           | 770                          | 189                 | 33             | 11DB825H           | 825                          | 189                 | 35             | 11DB880H           | 880                          | 189                 | 37.5           | 11DB935H           | 935                          | 189                 | 39             |
| 12DB840H           | 840                          | 205                 | 35.8           | 12DB900H           | 900                          | 205                 | 38             | 12DB960H           | 960                          | 205                 | 40.7           | 12DB1020H          | 1020                         | 205                 | 42.4           |

| 90AH               | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 100AH              | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 110AH              | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) |
|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|--------------------|------------------------------|---------------------|----------------|
| Height<br>H1=622mm |                              |                     |                | Height<br>H1=622mm |                              |                     |                | Height<br>H1=688mm |                              |                     |                |
| Height<br>H2=653mm |                              |                     |                | Height<br>H2=653mm |                              |                     |                | Height<br>H2=719mm |                              |                     |                |
| 2DB180H            | 180                          | 45                  | 9              | 2DB200H            | 200                          | 45                  | 9.8            | 2DB220H            | 220                          | 45                  | 10.9           |
| 3DB270H            | 270                          | 61                  | 12.5           | 3DB300H            | 300                          | 61                  | 13.8           | 3DB330H            | 330                          | 61                  | 15.3           |
| 4DB360H            | 360                          | 77                  | 16             | 4DB400H            | 400                          | 77                  | 17.7           | 4DB440H            | 440                          | 77                  | 19.6           |
| 5DB450H            | 450                          | 93                  | 19.6           | 5DB500H            | 500                          | 93                  | 21.6           | 5DB550H            | 550                          | 93                  | 24             |
| 6DB540H            | 540                          | 109                 | 23.1           | 6DB600H            | 600                          | 109                 | 25.5           | 6DB660H            | 660                          | 109                 | 28.3           |
| 7DB630H            | 630                          | 125                 | 26.7           | 7DB700H            | 700                          | 125                 | 29.5           | 7DB770H            | 770                          | 125                 | 33.3           |
| 8DB720H            | 720                          | 141                 | 30.8           | 8DB800H            | 800                          | 141                 | 33.9           | 8DB880H            | 880                          | 141                 | 37.7           |
| 9DB810H            | 810                          | 157                 | 34.3           | 9DB900H            | 900                          | 157                 | 37.9           | 9DB990H            | 990                          | 157                 | 42             |
| 10DB900H           | 900                          | 173                 | 37.9           | 10DB1000H          | 1000                         | 173                 | 41.8           | 10DB1100H          | 1100                         | 173                 | 46.4           |
| 11DB990H           | 990                          | 189                 | 41.4           | 11DB1100H          | 1100                         | 189                 | 45.7           | 11DB1210H          | 1210                         | 189                 | 50.7           |
| 12DB1080H          | 1080                         | 205                 | 44.9           | 12DB1200H          | 1200                         | 205                 | 49.6           | 12DB1320H          | 1320                         | 205                 | 55.1           |



W: Indicates battery width  
L: Indicates battery length  
H: Indicates battery height

## DIN Standard PzS Series Lead-Acid Traction Battery



| DIN Standard                             |                              |                     |                |  |                              |                     |                |  |                              |                     |                |
|--|------------------------------|---------------------|----------------|--|------------------------------|---------------------|----------------|--|------------------------------|---------------------|----------------|
| 55AH                                     | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 60AH                                     | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 70AH                                     | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) |
| Height<br>H1=339mm<br>Height<br>H2=370mm |                              |                     |                | Height<br>H1=339mm<br>Height<br>H2=370mm |                              |                     |                | Height<br>H1=401mm<br>Height<br>H2=432mm |                              |                     |                |
| 2PzS110H                                 | 110                          | 47                  | 5.9            | 2PzS120H                                 | 120                          | 47                  | 6.3            | 2PzS140H                                 | 140                          | 47                  | 7              |
| 3PzS165H                                 | 165                          | 65                  | 8.1            | 3PzS180H                                 | 180                          | 65                  | 8.7            | 3PzS210H                                 | 210                          | 65                  | 9.8            |
| 4PzS220H                                 | 220                          | 83                  | 10.5           | 4PzS240H                                 | 240                          | 83                  | 11.2           | 4PzS280H                                 | 280                          | 83                  | 12.7           |
| 5PzS275H                                 | 275                          | 101                 | 12.8           | 5PzS300H                                 | 300                          | 101                 | 13.7           | 5PzS350H                                 | 350                          | 101                 | 15.6           |
| 6PzS330H                                 | 330                          | 119                 | 15.1           | 6PzS360H                                 | 360                          | 119                 | 16.2           | 6PzS420H                                 | 420                          | 119                 | 18.4           |
| 7PzS385H                                 | 385                          | 137                 | 17.4           | 7PzS420H                                 | 420                          | 137                 | 18.7           | 7PzS490H                                 | 490                          | 137                 | 21.3           |
| 8PzS440H                                 | 440                          | 155                 | 19.7           | 8PzS480H                                 | 480                          | 155                 | 21.2           | 8PzS560H                                 | 560                          | 155                 | 24.2           |
| 9PzS495H                                 | 495                          | 173                 | 22.6           | 9PzS540H                                 | 540                          | 173                 | 24.4           | 9PzS630H                                 | 630                          | 173                 | 27.6           |
| 10PzS550H                                | 550                          | 191                 | 24.9           | 10PzS600H                                | 600                          | 191                 | 26.9           | 10PzS700H                                | 700                          | 191                 | 30.4           |
| 11PzS605H                                | 605                          | 209                 | 27.3           | 11PzS660H                                | 660                          | 209                 | 29.4           | 11PzS770H                                | 770                          | 209                 | 33.3           |
| 12PzS660H                                | 660                          | 227                 | 29.6           | 12PzS720H                                | 720                          | 227                 | 31.9           | 12PzS840H                                | 840                          | 227                 | 36.2           |

| 80AH                                     | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 90AH                                     | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 105AH                                    | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 115AH                                    | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) |
|--|------------------------------|---------------------|----------------|--|------------------------------|---------------------|----------------|--|------------------------------|---------------------|----------------|--|------------------------------|---------------------|----------------|
| Height<br>H1=401mm<br>Height<br>H2=432mm |                              |                     |                | Height<br>H1=469mm<br>Height<br>H2=500mm |                              |                     |                | Height<br>H1=521mm<br>Height<br>H2=552mm |                              |                     |                | Height<br>H1=545mm<br>Height<br>H2=576mm |                              |                     |                |
| 2PzS160H                                 | 160                          | 47                  | 7.7            | 2PzS180H                                 | 180                          | 47                  | 8.6            | 2PzS210H                                 | 210                          | 47                  | 10             | 2PzS230H                                 | 230                          | 47                  | 11             |
| 3PzS240H                                 | 240                          | 65                  | 10.8           | 3PzS270H                                 | 270                          | 65                  | 12.1           | 3PzS315H                                 | 315                          | 65                  | 13.9           | 3PzS345H                                 | 345                          | 65                  | 15.4           |
| 4PzS320H                                 | 320                          | 83                  | 14             | 4PzS360H                                 | 360                          | 83                  | 15.6           | 4PzS420H                                 | 420                          | 83                  | 17.9           | 4PzS460H                                 | 460                          | 83                  | 19.9           |
| 5PzS400H                                 | 400                          | 101                 | 17.2           | 5PzS450H                                 | 450                          | 101                 | 19.1           | 5PzS525H                                 | 525                          | 101                 | 21.7           | 5PzS575H                                 | 575                          | 101                 | 24.3           |
| 6PzS480H                                 | 480                          | 119                 | 20.4           | 6PzS540H                                 | 540                          | 119                 | 22.6           | 6PzS630H                                 | 630                          | 119                 | 25.7           | 6PzS690H                                 | 690                          | 119                 | 28.8           |
| 7PzS560H                                 | 560                          | 137                 | 23.6           | 7PzS630H                                 | 630                          | 137                 | 26.1           | 7PzS735H                                 | 735                          | 137                 | 30.5           | 7PzS805H                                 | 805                          | 137                 | 33.8           |
| 8PzS640H                                 | 640                          | 155                 | 26.8           | 8PzS720H                                 | 720                          | 155                 | 29.7           | 8PzS840H                                 | 840                          | 155                 | 34.4           | 8PzS920H                                 | 920                          | 155                 | 38.3           |
| 9PzS720H                                 | 720                          | 173                 | 30.6           | 9PzS810H                                 | 810                          | 173                 | 33.9           | 9PzS945H                                 | 945                          | 173                 | 38.3           | 9PzS1035H                                | 1035                         | 173                 | 42.8           |
| 10PzS800H                                | 800                          | 191                 | 33.8           | 10PzS900H                                | 900                          | 191                 | 37.4           | 10PzS1050H                               | 1050                         | 191                 | 42.2           | 10PzS1150H                               | 1150                         | 191                 | 47.3           |
| 11PzS880H                                | 880                          | 209                 | 37             | 11PzS990H                                | 990                          | 209                 | 40.9           | 11PzS1155H                               | 1155                         | 209                 | 46.1           | 11PzS1265H                               | 1265                         | 209                 | 51.7           |
| 12PzS960H                                | 960                          | 227                 | 40.2           | 12PzS1080H                               | 1080                         | 227                 | 44.4           | 12PzS1260H                               | 1260                         | 227                 | 50.1           | 12PzS1380H                               | 1380                         | 227                 | 56.2           |



| 125AH                                    | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 140AH                                    | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) | 155AH                                    | Rated Capacity<br>C5<br>(AH) | Length<br>L<br>(mm) | Weight<br>(kg) |
|--|------------------------------|---------------------|----------------|--|------------------------------|---------------------|----------------|--|------------------------------|---------------------|----------------|
| Height<br>H1=566mm<br>Height<br>H2=597mm |                              |                     |                | Height<br>H1=684mm<br>Height<br>H2=715mm |                              |                     |                | Height<br>H1=719mm<br>Height<br>H2=750mm |                              |                     |                |
| 2PzS250H                                 | 250                          | 47                  | 11.4           | 2PzS280H                                 | 280                          | 47                  | 13.3           | 2PzS310H                                 | 310                          | 47                  | 14.2           |
| 3PzS375H                                 | 375                          | 65                  | 16             | 3PzS420H                                 | 420                          | 65                  | 18.6           | 3PzS465H                                 | 465                          | 65                  | 19.9           |
| 4PzS500H                                 | 500                          | 83                  | 20.7           | 4PzS560H                                 | 560                          | 83                  | 24             | 4PzS620H                                 | 620                          | 83                  | 25.6           |
| 5PzS625H                                 | 625                          | 101                 | 25.3           | 5PzS700H                                 | 700                          | 101                 | 29.4           | 5PzS775H                                 | 775                          | 101                 | 31.4           |
| 6PzS750H                                 | 750                          | 119                 | 30             | 6PzS840H                                 | 840                          | 119                 | 34.7           | 6PzS930H                                 | 930                          | 119                 | 37.1           |
| 7PzS875H                                 | 875                          | 137                 | 35.2           | 7PzS980H                                 | 980                          | 137                 | 41             | 7PzS1085H                                | 1085                         | 137                 | 43.7           |
| 8PzS1000H                                | 1000                         | 155                 | 39.9           | 8PzS1120H                                | 1120                         | 155                 | 46.3           | 8PzS1240H                                | 1240                         | 155                 | 49.5           |
| 9PzS1125H                                | 1125                         | 173                 | 44.5           | 9PzS1260H                                | 1260                         | 173                 | 51.7           | 9PzS1395H                                | 1395                         | 173                 | 55.2           |
| 10PzS1250H                               | 1250                         | 191                 | 49.2           | 10PzS1400H                               | 1400                         | 191                 | 57             | 10PzS1550H                               | 1550                         | 191                 | 61             |
| 11PzS1375H                               | 1375                         | 209                 | 53.8           | 11PzS1540H                               | 1540                         | 209                 | 62.4           | 11PzS1705H                               | 1705                         | 209                 | 66.7           |
| 12PzS1500H                               | 1500                         | 227                 | 58.5           | 12PzS1680H                               | 1680                         | 227                 | 67.8           | 12PzS1860H                               | 1860                         | 227                 | 72.4           |





## Lead-Acid Battery for Electric Vehicle

| Type      | Rated Voltage (V) | Rated Capacity(Ah) |      |     |     | Max Overall Dimensions (mm) |     |     | Reference Weight (kg) |
|-----------|-------------------|--------------------|------|-----|-----|-----------------------------|-----|-----|-----------------------|
|           |                   | 20hr               | 10hr | 5hr | 3hr | L                           | W   | H   |                       |
| 3-DG-180  | 6                 | 220                | 210  | 180 | 160 | 260                         | 182 | 282 | 32                    |
| 3-DG-180H | 6                 | 220                | 210  | 180 | 160 | 260                         | 182 | 303 | 32                    |
| 3-DG-210  | 6                 | 260                | 240  | 210 | 180 | 260                         | 182 | 303 | 34.5                  |
| 3-DG-190  | 6                 | 230                | 220  | 190 | 170 | 245                         | 190 | 312 | 33                    |
| 3-DG-200  | 6                 | 245                | 225  | 200 | 185 | 245                         | 190 | 288 | 33                    |
| 3-DG-220  | 6                 | 270                | 250  | 220 | 190 | 245                         | 190 | 312 | 35.5                  |
| 3-DG-230  | 6                 | 280                | 260  | 230 | 200 | 360                         | 172 | 275 | 35.5                  |
| 4-DG-145  | 8                 | 170                | 160  | 145 | 120 | 260                         | 182 | 289 | 30.5                  |
| 6-DG-75   | 12                | 75                 | 65   | 60  | 50  | 351                         | 173 | 210 | 24                    |
| 6-DG-120  | 12                | 110                | 100  | 90  | 80  | 360                         | 172 | 270 | 30                    |
| 6-DG-130  | 12                | 110                | 100  | 90  | 80  |                             |     |     | 33                    |
| 6-DG-140  | 12                | 150                | 140  | 120 | 100 |                             |     |     | 35                    |
| 6-DG-160  | 12                | 150                | 140  | 120 | 100 |                             |     |     | 38                    |
| 6-DG-180  | 12                | 180                | 160  | 140 | 120 | 328                         | 182 | 290 | 40                    |



## GEL Battery for Electric Vehicle

| Type      | Rated Voltage (V) | Rated Capacity (Ah) |     | Max Overall Dimensions (mm) |     |     |     | Reference Weight (kg) |
|-----------|-------------------|---------------------|-----|-----------------------------|-----|-----|-----|-----------------------|
|           |                   | 3hr                 | 5hr | L                           | W   | H   | TH  |                       |
| 3-DMJ-180 | 6                 | 160                 | 180 | 256                         | 175 | 240 | 245 | 30                    |
| 3-DMJ-200 | 6                 | 180                 | 200 | 256                         | 175 | 240 | 245 | 31.5                  |
| 3-DMJ-220 | 6                 | 200                 | 220 | 260                         | 180 | 280 | 285 | 36.5                  |
| 4-DMJ-170 | 8                 | 150                 | 170 | 260                         | 180 | 280 | 283 | 36.5                  |
| 6-DMJ-37  | 12                | 33                  | 37  | 175                         | 166 | 125 | 127 | 9.7                   |
| 6-DMJ-50  | 12                | 45                  | 50  | 222                         | 93  | 174 | 177 | 10.4                  |
| 6-DMJ-55  | 12                | 50                  | 55  | 262                         | 165 | 170 | 170 | 16                    |
| 6-DMJ-65  | 12                | 60                  | 65  | 351                         | 165 | 180 | 180 | 20                    |
| 6-DMJ-85  | 12                | 80                  | 85  | 260                         | 168 | 210 | 215 | 25.5                  |
| 6-DMJ-100 | 12                | 90                  | 100 | 306                         | 168 | 210 | 215 | 28                    |
| 6-DMJ-110 | 12                | 100                 | 110 | 330                         | 174 | 214 | 218 | 33                    |
| 6-DMJ-135 | 12                | 120                 | 135 | 341                         | 173 | 280 | 283 | 41.5                  |
| 6-DMJ-165 | 12                | 150                 | 165 | 485                         | 170 | 241 | 241 | 50                    |
| 6-DMJ-220 | 12                | 200                 | 220 | 523                         | 238 | 216 | 220 | 64.4                  |





## BCI Standard Lead-Acid Traction Battery

| 85AH<br>Height H1=524mm<br>Height H2=554mm | Rated<br>Capacity<br>C6(AH) | Length<br>L(mm) | Width<br>W(mm) | Weight<br>(kg) | 125AH<br>Height H1=720mm<br>Height H2=750mm | Rated<br>Capacity<br>C6(AH) | Length<br>L(mm) | Width<br>W(mm) | Weight<br>(kg) |
|--|-----------------------------|-----------------|----------------|----------------|---|-----------------------------|-----------------|----------------|----------------|
|  |                             |                 |                |                |   |                             |                 |                |                |
| 85T-5                                      | 170                         | 51              | 157            | 16             | 125T-5                                      | 250                         | 51              | 157            | 21             |
| 85T-7                                      | 255                         | 79              | 157            | 19             | 125T-7                                      | 375                         | 79              | 157            | 24             |
| 85T-9                                      | 340                         | 89              | 157            | 24             | 125T-9                                      | 500                         | 89              | 157            | 31             |
| 85T-11                                     | 425                         | 108             | 157            | 29             | 125T-11                                     | 625                         | 108             | 157            | 38             |
| 85T-13                                     | 510                         | 127             | 157            | 34             | 125T-13                                     | 750                         | 127             | 157            | 45             |
| 85T-15                                     | 595                         | 146             | 159            | 39             | 125T-15                                     | 875                         | 146             | 159            | 52             |
| 85T-17                                     | 680                         | 165             | 159            | 45             | 125T-17                                     | 1000                        | 165             | 159            | 59             |
| 85T-19                                     | 765                         | 184             | 159            | 50             | 125T-19                                     | 1125                        | 184             | 159            | 66             |
| 85T-21                                     | 850                         | 203             | 159            | 55             | 125T-21                                     | 1250                        | 203             | 159            | 73             |
| 85T-23                                     | 935                         | 222             | 159            | 60             | 125T-23                                     | 1375                        | 222             | 159            | 80             |
| 85T-25                                     | 1020                        | 241             | 159            | 65             | 125T-25                                     | 1500                        | 241             | 159            | 86             |
| 85T-27                                     | 1105                        | 260             | 159            | 71             |   |                             |                 |                |                |
| 85T-29                                     | 1190                        | 279             | 159            | 76             |   |                             |                 |                |                |
| 85T-31                                     | 1275                        | 298             | 159            | 82             |   |                             |                 |                |                |
| 85T-33                                     | 1360                        | 317             | 159            | 87             |   |                             |                 |                |                |

## Explosion Proof Lead Acid Battery

| Series | Type        | 5hr rated<br>capacity<br>(AH) | Max Overall Dimensions<br>mm |     |     |     | weight<br>(kg)<br>wet | Environment Condition                          |
|--------|-------------|-------------------------------|------------------------------|-----|-----|-----|-----------------------|--|
|        |             |                               | L                            | W   | H1  | H2  |                       |  |
| GT     | 9DB250A-GT  | 250                           | 130                          | 204 | 300 | 341 | 19.7                  | gaseous environment 1,2                        |
|        | 5DB500A-GT  | 500                           | 93                           |     | 690 | 731 | 32.1                  | gaseous environment 1,2                        |
|        | 6DB420A-GT  | 420                           | 109                          |     | 495 | 536 | 26.5                  | gaseous environment 1,2                        |
|        | 7DB630A-GT  | 630                           | 125                          |     | 624 | 665 | 39.5                  | gaseous environment 1,2                        |
|        | 8DB400A-GT  | 400                           | 141                          |     | 386 | 427 | 26.7                  | gaseous environment 1,2                        |
|        | 8DB60GH-GT  | 600                           | 141                          | 158 | 495 | 536 | 34.5                  | gaseous environment 1,2                        |
|        | 10DB350H-GT | 350                           | 175                          |     | 395 | 436 | 32.9                  | gaseous environment 1,2                        |
| T      | 5DB500A-T   | 500                           | 93                           |     | 690 | 731 | 32.1                  | gaseous environment 1,2,<br>dust atmosphere 21 |
|        | 6DB420A-T   | 420                           | 109                          |     | 495 | 536 | 26.5                  | gaseous environment 1,2,<br>dust atmosphere 22 |
|        | 7DB630A-T   | 630                           | 125                          |     | 624 | 665 | 39.5                  | gaseous environment 1,2,<br>dust atmosphere 23 |



## Charger



High Frequency Charger



Traction Battery Charger



Battery Formation Charger

Battery Acid Recirculation Formation System



Automatic Intelligent Charger





| Input AC Voltage [V] | Nominal DC Voltage   | Nominal DC Current [A] | Number of Modules | Housing dimensions [mm] | Charge curve PzS battery | Charging time [depends on PzS battery capacity] |   |
|----------------------|----------------------|------------------------|-------------------|-------------------------|--------------------------|---|---|
|                      |                      |                        |                   |                         |                          | without electrolyte circulation (trak   air)    | with electrolyte circulation (trak   air) |
| E230                 | 24 V                 | 20                     | 1                 | 308x373x690             | IUla or IUola            | 7-12h   | 5-10h                                     |
|                      |                      | 30                     |                   |                         |                          |   |   |
|                      |                      | 40                     |                   |                         |                          |   |   |
|                      |                      | 50                     | 2                 |                         |                          |   |   |
|                      |                      | 60                     |                   |                         |                          |   |   |
|                      |                      | 70                     | 3                 |                         |                          |   |   |
|                      |                      | 80                     |                   |                         |                          |   |   |
|                      |                      | 90                     |                   |                         |                          |   |   |
| D400                 | 24 V<br>36 V<br>48 V | 30                     | 1                 | 308 x 373 x 690         | IUla or IUola            | 7-12h   | 5-10h                                     |
|                      |                      | 40                     |                   |                         |                          |   |   |
|                      |                      | 50                     |                   |                         |                          |   |   |
|                      |                      | 60                     |                   |                         |                          |   |   |
|                      |                      | 65                     |                   |                         |                          |   |   |
|                      |                      | 70                     | 2                 |                         |                          |   |   |
|                      |                      | 80                     |                   |                         |                          |   |   |
|                      |                      | 90                     |                   |                         |                          |   |   |
|                      |                      | 100                    |                   |                         |                          |   |   |
|                      |                      | 110                    |                   |                         |                          |   |   |
|                      |                      | 120                    | 3                 |                         |                          |   |   |
|                      |                      | 130                    |                   |                         |                          |   |   |
|                      |                      | 140                    |                   |                         |                          |   |   |
|                      |                      | 150                    |                   |                         |                          |   |   |
|                      |                      | 160                    |                   |                         |                          |   |   |
|                      |                      | 170                    |                   |                         |                          |   |   |
|                      |                      | 180                    |                   |                         |                          |   |   |
|                      |                      | 190                    |                   |                         |                          |   |   |
|                      |                      | 195                    |                   |                         |                          |   |   |
| D400                 | 24 V<br>36 V<br>48 V | 200                    | 4                 | 471 x 373 x 690         | IUla or IUola            | 7-12h   | 5-10h                                     |
|                      |                      | 210                    |                   |                         |                          |   |   |
|                      |                      | 220                    |                   |                         |                          |   |   |
|                      |                      | 230                    |                   |                         |                          |   |   |
|                      |                      | 240                    |                   |                         |                          |   |   |
|                      |                      | 250                    |                   |                         |                          |   |   |
|                      |                      | 260                    |                   |                         |                          |   |   |
|                      |                      | 270                    | 5                 |                         |                          |   |   |
|                      |                      | 280                    |                   |                         |                          |   |   |
|                      |                      | 290                    |                   |                         |                          |   |   |
|                      |                      | 300                    |                   |                         |                          |   |   |
| D400                 | 72 V<br>80 V         | 20                     | 1                 | 308 x 373 x 690         | IUla or IUola            | 7-12h   | 5-10h                                     |
|                      |                      | 30                     |                   |                         |                          |   |   |
|                      |                      | 40                     |                   |                         |                          |   |   |
|                      |                      | 50                     | 2                 |                         |                          |   |   |
|                      |                      | 60                     |                   |                         |                          |   |   |
|                      |                      | 70                     |                   |                         |                          |   |   |
|                      |                      | 80                     |                   |                         |                          |   |   |
|                      |                      | 90                     | 3                 |                         |                          |   |   |
|                      |                      | 100                    |                   |                         |                          |   |   |
|                      |                      | 110                    |                   |                         |                          |   |   |
|                      |                      | 120                    |                   |                         |                          |   |   |
|                      |                      | 130                    | 4                 | 471 x 373 x 690         |                          |   |   |
|                      |                      | 140                    |                   |                         |                          |   |   |
|                      |                      | 150                    |                   |                         |                          |   |   |
|                      |                      | 160                    |                   |                         |                          |   |   |
|                      |                      | 170                    |                   |                         |                          |   |   |
|                      |                      | 180                    | 5                 |                         |                          |   |   |
|                      |                      | 190                    |                   |                         |                          |   |   |
|                      |                      | 200                    |                   |                         |                          |   |   |



Knielweg 3a 30969 Gehrden Germany  
info@tmequipments.de