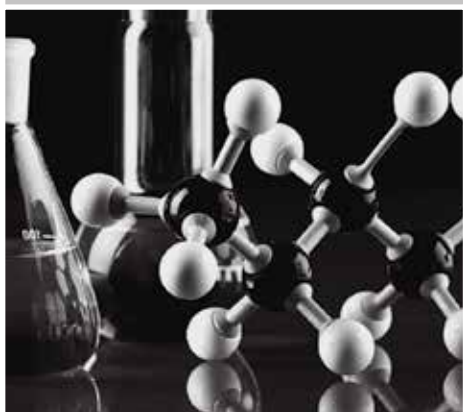


# TAB TRACTION BATTERIES

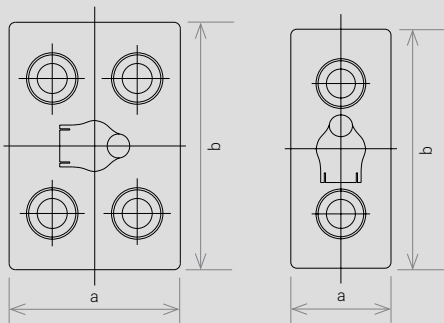


# TAB

DIN  
DIN-S  
BCI  
BS  
PzV  
PzVB  
PzRM

WE HAVE EXPERIENCE AND WE HAVE  
KNOWLEDGE — THEREFORE OUR HIGH QUALITY  
BATTERIES ARE KNOWN WORLDWIDE.

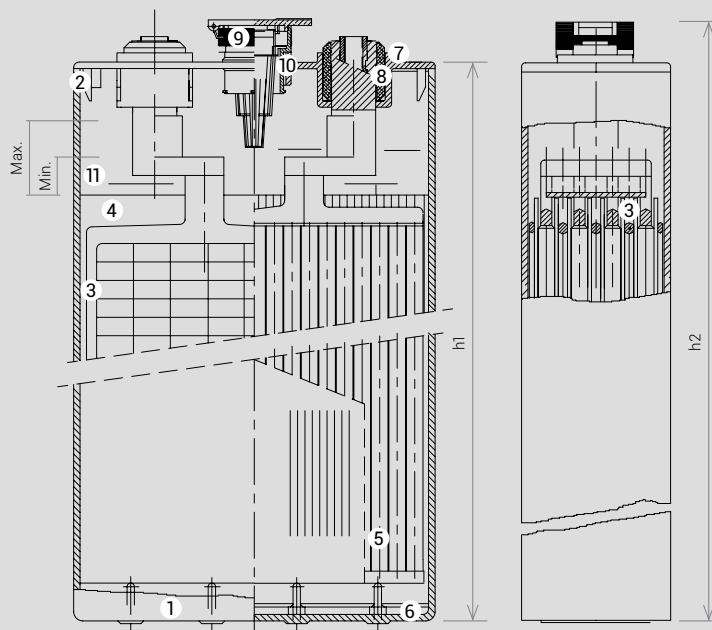
WE ARE PROUD OF OUR DURABLE ENERGY —  
NOW ALREADY MORE THAN 50 YEARS.



IN ORDER THAT THE BATTERIES WOULD MEET ALL  
YOUR DEMANDS, WE KINDLY ASK YOU TO ENCLOSE  
THE FOLLOWING DATA WITH YOUR ORDER:

- **battery voltage**
- **capacity** of the battery at a five-hour discharge rate
- **dimensions** of the battery tray
- **designation and type** of the electric machine
- any **special demands**
- a battery **drawing** (when possible)

IN CASE OF PROBLEMS WITH ORDERING WE WILL BE  
GLAD TO ADVISE AND ASSIST YOU IN THE SELECTION  
OF THE SUITABLE TYPE OF BATTERY.



- 1 Polypropylene container
- 2 Polypropylene cover
- 3 Negative grid Plate
- 4 Microporous separator
- 5 Positive armoured tube Plate
- 6 Settling rib
- 7 Terminal post
- 8 Rubber sealing
- 9 Cell plug Ø 35,5
- 10 Plug sealing Ø 35,5
- 11 Electrolyte

All measures and weights are within standard production tolerances.  
Electrical values are approximate.  
Technical modifications are reserved without prior notice.

# DIN STANDARD CHARACTERISTIC DATA

Electrolyte density by 30 °C: 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.  
Cells from 7 to 10 PzS types are available with 2 and 4 poles. For 4 poles, please specify in your order.  
10 PzS 1400 L, 10 PzS 1550 L and all 12 PzS cells are available with 4 poles only. Cells available only with 4 poles are signed with \*.

## 50Ah/plate

h1 = 282, h2 = 305 mm | length = b = 198 mm

| CELL TYPE      | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 100 L    | 2 Pg 190 L      | 100         | 47       | 6,8              | 5,7             |
| 3 PzS 150 L    | 3 Pg 190 L      | 150         | 65       | 9,6              | 7,7             |
| 4 PzS 200 L    | 4 Pg 190 L      | 200         | 83       | 12,4             | 9,9             |
| 5 PzS 250 L    | 5 Pg 190 L      | 250         | 101      | 15,3             | 12,2            |
| 6 PzS 300 L    | 6 Pg 190 L      | 300         | 119      | 18,2             | 14,5            |
| 7 PzS 350 L    | 7 Pg 190 L      | 350         | 137      | 21,1             | 16,7            |
| 8 PzS 400 L    | 8 Pg 190 L      | 400         | 155      | 24,0             | 19,0            |
| 9 PzS 450 L    | 9 Pg 190 L      | 450         | 173      | 26,9             | 21,3            |
| 10 PzS 500 L   | 10 Pg 190 L     | 500         | 191      | 29,8             | 23,6            |
| 12 PzS 600 L * | 12 Pg 190 L     | 600         | 227      | 35,9             | 28,4            |

## 80Ah/plate

h1 = 402, h2 = 425 mm | length = b = 198 mm

| CELL TYPE      | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 160 L    | 2 Pg 310 L      | 160         | 47       | 10,2             | 8,1             |
| 3 PzS 240 L    | 3 Pg 310 L      | 240         | 65       | 14,5             | 11,2            |
| 4 PzS 320 L    | 4 Pg 310 L      | 320         | 83       | 18,7             | 14,6            |
| 5 PzS 400 L    | 5 Pg 310 L      | 400         | 101      | 22,9             | 17,9            |
| 6 PzS 480 L    | 6 Pg 310 L      | 480         | 119      | 27,1             | 21,3            |
| 7 PzS 560 L    | 7 Pg 310 L      | 560         | 137      | 31,3             | 24,7            |
| 8 PzS 640 L    | 8 Pg 310 L      | 640         | 155      | 35,5             | 28,0            |
| 9 PzS 720 L    | 9 Pg 310 L      | 720         | 173      | 39,7             | 31,4            |
| 10 PzS 800 L   | 10 Pg 310 L     | 800         | 191      | 43,9             | 34,7            |
| 12 PzS 960 L * | 12 Pg 310 L     | 960         | 227      | 52,6             | 41,8            |

## 105Ah/plate

h1 = 515, h2 = 538 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 210 L     | 2 Pg 425 L      | 210         | 47       | 13,3             | 10,3            |
| 3 PzS 315 L     | 3 Pg 425 L      | 315         | 65       | 18,3             | 14,4            |
| 4 PzS 420 L     | 4 Pg 425 L      | 420         | 83       | 23,7             | 18,6            |
| 5 PzS 525 L     | 5 Pg 425 L      | 525         | 101      | 29,1             | 22,9            |
| 6 PzS 630 L     | 6 Pg 425 L      | 630         | 119      | 34,5             | 27,1            |
| 7 PzS 735 L     | 7 Pg 425 L      | 735         | 137      | 39,9             | 31,4            |
| 8 PzS 840 L     | 8 Pg 425 L      | 840         | 155      | 45,3             | 35,6            |
| 9 PzS 945 L     | 9 Pg 425 L      | 945         | 173      | 50,7             | 39,9            |
| 10 PzS 1050 L   | 10 Pg 425 L     | 1050        | 191      | 56,4             | 44,5            |
| 12 PzS 1260 L * | 12 Pg 425 L     | 1260        | 227      | 67,2             | 53,0            |

## 125Ah/plate

h1 = 570, h2 = 593 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 250 L     | 2 Pg 480 L      | 250         | 47       | 14,7             | 11,6            |
| 3 PzS 375 L     | 3 Pg 480 L      | 375         | 65       | 20,7             | 16,2            |
| 4 PzS 500 L     | 4 Pg 480 L      | 500         | 83       | 26,9             | 21,1            |
| 5 PzS 625 L     | 5 Pg 480 L      | 625         | 101      | 33,1             | 26,0            |
| 6 PzS 750 L     | 6 Pg 480 L      | 750         | 119      | 39,3             | 30,9            |
| 7 PzS 875 L     | 7 Pg 480 L      | 875         | 137      | 45,5             | 35,8            |
| 8 PzS 1000 L    | 8 Pg 480 L      | 1000        | 155      | 51,7             | 40,7            |
| 9 PzS 1125 L    | 9 Pg 480 L      | 1125        | 173      | 58,2             | 45,9            |
| 10 PzS 1250 L   | 10 Pg 480 L     | 1250        | 191      | 64,4             | 50,8            |
| 12 PzS 1500 L * | 12 Pg 480 L     | 1500        | 227      | 76,8             | 60,6            |

## 155Ah/plate

h1 = 720, h2 = 743 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 310 L     | 2 Pg 590 L      | 310         | 47       | 18,8             | 14,9            |
| 3 PzS 465 L     | 3 Pg 590 L      | 465         | 65       | 26,1             | 20,6            |
| 4 PzS 620 L     | 4 Pg 590 L      | 620         | 83       | 33,5             | 26,7            |
| 5 PzS 775 L     | 5 Pg 590 L      | 775         | 101      | 41,1             | 32,9            |
| 6 PzS 930 L     | 6 Pg 590 L      | 930         | 119      | 48,9             | 39,0            |
| 7 PzS 1085 L    | 7 Pg 590 L      | 1085        | 137      | 56,7             | 45,1            |
| 8 PzS 1240 L    | 8 Pg 590 L      | 1240        | 155      | 64,5             | 51,3            |
| 9 PzS 1395 L    | 9 Pg 590 L      | 1395        | 173      | 72,8             | 57,8            |
| 10 PzS 1550 L * | 10 Pg 590 L     | 1550        | 191      | 80,6             | 64,0            |
| 12 PzS 1860 L * | 12 Pg 590 L     | 1860        | 227      | 96,2             | 76,2            |

## 60Ah/plate

h1 = 340, h2 = 363 mm | length = b = 198 mm

| CELL TYPE      | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 120 L    | 2 Pg 250 L      | 120         | 47       | 8,5              | 6,5             |
| 3 PzS 180 L    | 3 Pg 250 L      | 180         | 65       | 11,9             | 9,2             |
| 4 PzS 240 L    | 4 Pg 250 L      | 240         | 83       | 15,4             | 11,9            |
| 5 PzS 300 L    | 5 Pg 250 L      | 300         | 101      | 18,9             | 14,6            |
| 6 PzS 360 L    | 6 Pg 250 L      | 360         | 119      | 22,4             | 17,2            |
| 7 PzS 420 L    | 7 Pg 250 L      | 420         | 137      | 25,9             | 19,9            |
| 8 PzS 480 L    | 8 Pg 250 L      | 480         | 155      | 29,4             | 22,6            |
| 9 PzS 540 L    | 9 Pg 250 L      | 540         | 173      | 32,9             | 25,2            |
| 10 PzS 600 L   | 10 Pg 250 L     | 600         | 191      | 36,4             | 27,9            |
| 12 PzS 720 L * | 12 Pg 250 L     | 720         | 227      | 43,7             | 33,6            |

## 90Ah/plate

h1 = 472, h2 = 495 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 180 L     | 2 Pg 360 L      | 180         | 47       | 11,6             | 9,1             |
| 3 PzS 270 L     | 3 Pg 360 L      | 270         | 65       | 16,6             | 12,8            |
| 4 PzS 360 L     | 4 Pg 360 L      | 360         | 83       | 21,4             | 16,6            |
| 5 PzS 450 L     | 5 Pg 360 L      | 450         | 101      | 26,2             | 20,5            |
| 6 PzS 540 L     | 6 Pg 360 L      | 540         | 119      | 31,0             | 24,4            |
| 7 PzS 630 L     | 7 Pg 360 L      | 630         | 137      | 35,8             | 28,2            |
| 8 PzS 720 L     | 8 Pg 360 L      | 720         | 155      | 40,6             | 32,1            |
| 9 PzS 810 L     | 9 Pg 360 L      | 810         | 173      | 45,4             | 35,9            |
| 10 PzS 900 L    | 10 Pg 360 L     | 900         | 191      | 50,2             | 39,8            |
| 12 PzS 1080 L * | 12 Pg 360 L     | 1080        | 227      | 60,1             | 47,8            |

## 115Ah/plate

h1 = 545, h2 = 568 mm | length = b = 198 mm

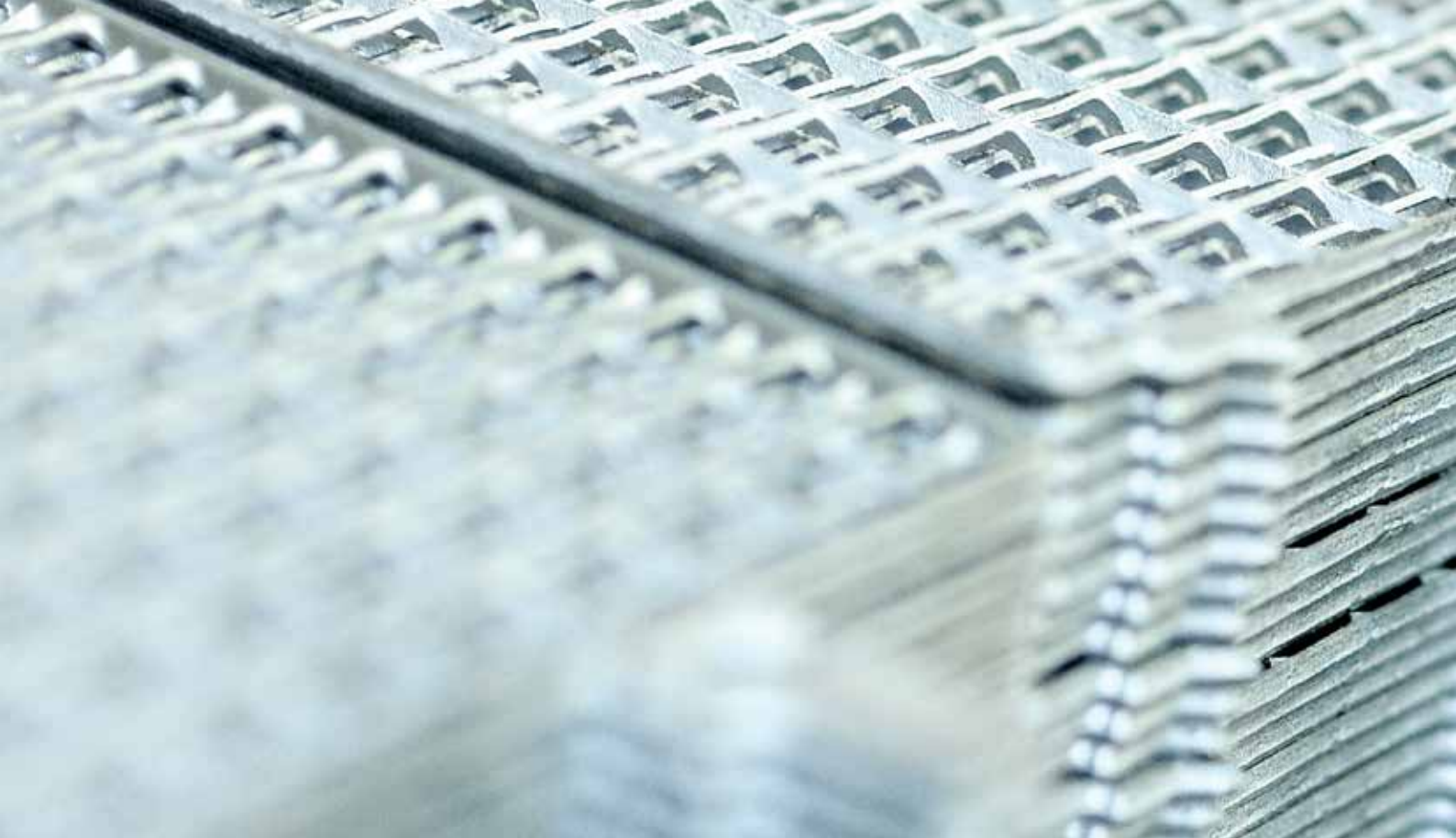
| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 230 L     | 2 Pg 445 L      | 230         | 47       | 14,0             | 10,8            |
| 3 PzS 345 L     | 3 Pg 445 L      | 345         | 65       | 19,8             | 15,3            |
| 4 PzS 460 L     | 4 Pg 445 L      | 460         | 83       | 25,6             | 19,9            |
| 5 PzS 575 L     | 5 Pg 445 L      | 575         | 101      | 31,4             | 24,8            |
| 6 PzS 690 L     | 6 Pg 445 L      | 690         | 119      | 37,2             | 29,6            |
| 7 PzS 805 L     | 7 Pg 445 L      | 805         | 137      | 43,0             | 34,5            |
| 8 PzS 920 L     | 8 Pg 445 L      | 920         | 155      | 48,8             | 39,3            |
| 9 PzS 1035 L    | 9 Pg 445 L      | 1035        | 173      | 54,9             | 44,5            |
| 10 PzS 1150 L   | 10 Pg 445 L     | 1150        | 191      | 60,7             | 49,3            |
| 12 PzS 1380 L * | 12 Pg 445 L     | 1380        | 227      | 72,3             | 59,0            |

## 140Ah/plate

h1 = 686, h2 = 709 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 280 L     | 2 Pg 555 L      | 280         | 47       | 18,3             | 14,4            |
| 3 PzS 420 L     | 3 Pg 555 L      | 420         | 65       | 25,3             | 19,4            |
| 4 PzS 560 L     | 4 Pg 555 L      | 560         | 83       | 32,2             | 25,1            |
| 5 PzS 700 L     | 5 Pg 555 L      | 700         | 101      | 39,5             | 30,9            |
| 6 PzS 840 L     | 6 Pg 555 L      | 840         | 119      | 46,7             | 36,6            |
| 7 PzS 980 L     | 7 Pg 555 L      | 980         | 137      | 54,0             | 42,3            |
| 8 PzS 1120 L    | 8 Pg 555 L      | 1120        | 155      | 61,2             | 48,0            |
| 9 PzS 1260 L    | 9 Pg 555 L      | 1260        | 173      | 68,8             | 54,1            |
| 10 PzS 1400 L * | 10 Pg 555 L     | 1400        | 191      | 76,0             | 59,8            |
| 12 PzS 1680 L * | 12 Pg 555 L     | 1680        | 227      | 90,5             | 71,3            |





# DIN S STANDARD CHARACTERISTIC DATA

Electrolyte density by 30 °C: 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.  
Cells from 7 to 10 PzS types are available with 2 and 4 poles. For 4 poles, please specify in your order.  
10 PzS 1450 S and all 12 PzS cells are available with 4 poles only. Cells available only with 4 poles are signed with \*.

## 110Ah/plate

h1 = 545, h2 = 568 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 220 S     | 2 Pg 425 S      | 220         | 47       | 13,9             | 10,4            |
| 3 PzS 330 S     | 3 Pg 425 S      | 330         | 65       | 19,1             | 14,5            |
| 4 PzS 440 S     | 4 Pg 425 S      | 440         | 83       | 24,4             | 18,7            |
| 5 PzS 550 S     | 5 Pg 425 S      | 550         | 101      | 29,8             | 23,1            |
| 6 PzS 660 S     | 6 Pg 425 S      | 660         | 119      | 35,2             | 27,3            |
| 7 PzS 770 S     | 7 Pg 425 S      | 770         | 137      | 40,6             | 31,6            |
| 8 PzS 880 S     | 8 Pg 425 S      | 880         | 155      | 46,0             | 35,8            |
| 9 PzS 990 S     | 9 Pg 425 S      | 990         | 173      | 51,4             | 40,1            |
| 10 PzS 1100 S   | 10 Pg 425 S     | 1100        | 191      | 57,1             | 44,6            |
| 12 PzS 1320 S * | 12 Pg 425 S     | 1320        | 227      | 67,9             | 53,2            |

## 120Ah/plate

h1 = 570, h2 = 593 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 240 S     | 2 Pg 445 S      | 240         | 47       | 14,3             | 10,9            |
| 3 PzS 360 S     | 3 Pg 445 S      | 360         | 65       | 20,2             | 15,4            |
| 4 PzS 480 S     | 4 Pg 445 S      | 480         | 83       | 26,0             | 20,0            |
| 5 PzS 600 S     | 5 Pg 445 S      | 600         | 101      | 31,8             | 24,8            |
| 6 PzS 720 S     | 6 Pg 445 S      | 720         | 119      | 37,6             | 29,7            |
| 7 PzS 840 S     | 7 Pg 445 S      | 840         | 137      | 43,4             | 34,6            |
| 8 PzS 960 S     | 8 Pg 445 S      | 960         | 155      | 49,2             | 39,4            |
| 9 PzS 1080 S    | 9 Pg 445 S      | 1080        | 173      | 55,3             | 44,6            |
| 10 PzS 1200 S   | 10 Pg 445 S     | 1200        | 191      | 61,1             | 49,4            |
| 12 PzS 1440 S * | 12 Pg 445 S     | 1440        | 227      | 72,7             | 59,1            |

## 135Ah/plate

h1 = 686, h2 = 709 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 270 S     | 2 Pg 530 S      | 270         | 47       | 18,1             | 14,4            |
| 3 PzS 405 S     | 3 Pg 530 S      | 405         | 65       | 25,0             | 18,6            |
| 4 PzS 540 S     | 4 Pg 530 S      | 540         | 83       | 31,9             | 24,1            |
| 5 PzS 675 S     | 5 Pg 530 S      | 675         | 101      | 38,8             | 29,5            |
| 6 PzS 810 S     | 6 Pg 530 S      | 810         | 119      | 45,7             | 34,9            |
| 7 PzS 945 S     | 7 Pg 530 S      | 945         | 137      | 52,6             | 40,4            |
| 8 PzS 1080 S    | 8 Pg 530 S      | 1080        | 155      | 59,5             | 45,8            |
| 9 PzS 1215 S    | 9 Pg 530 S      | 1215        | 173      | 66,7             | 51,6            |
| 10 PzS 1350 S   | 10 Pg 530 S     | 1350        | 191      | 73,6             | 57,0            |
| 12 PzS 1620 S * | 12 Pg 530 S     | 1620        | 227      | 87,4             | 67,9            |

## 145Ah/plate

h1 = 720, h2 = 743 mm | length = b = 198 mm

| CELL TYPE       | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|-----------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzS 290 S     | 2 Pg 555 S      | 290         | 47       | 18,5             | 14,7            |
| 3 PzS 435 S     | 3 Pg 555 S      | 435         | 65       | 25,8             | 19,7            |
| 4 PzS 580 S     | 4 Pg 555 S      | 580         | 83       | 32,4             | 25,4            |
| 5 PzS 725 S     | 5 Pg 555 S      | 725         | 101      | 39,7             | 31,2            |
| 6 PzS 870 S     | 6 Pg 555 S      | 870         | 119      | 47,0             | 36,9            |
| 7 PzS 1015 S    | 7 Pg 555 S      | 1015        | 137      | 54,3             | 42,7            |
| 8 PzS 1160 S    | 8 Pg 555 S      | 1160        | 155      | 61,6             | 48,4            |
| 9 PzS 1305 S    | 9 Pg 555 S      | 1305        | 173      | 69,2             | 54,5            |
| 10 PzS 1450 S * | 10 Pg 555 S     | 1450        | 191      | 76,5             | 60,2            |
| 12 PzS 1740 S * | 12 Pg 555 S     | 1740        | 227      | 91,1             | 71,7            |



## BCI STANDARD CHARACTERISTIC DATA

Fully charged Specific Gravity 1,29 ± 0,01 kg/l at 30 °C.

Weight tolerance is ± 5 %.

**Cells from 9 to 15 USI types are available with 4 poles only.**

Cells available only with 4 poles are signed with \*.

### 85Ah/plate

h1 = 20,5" / 520 mm, h2 = 21,3" / 542 mm | length = 6,2" / 158 mm

| CELL TYPE    | US Type | CAPACITY 6h | Nr. of Plates | WIDTH Inch/mm | WEIGHT with acid | WEIGHT dry |
|--------------|---------|-------------|---------------|---------------|------------------|------------|
| 2 USI 413    | 5 plt   | 170         | 2             | 2,00/51       | 10,7/24          | 7,7/17     |
| 3 USI 413    | 7 plt   | 255         | 3             | 2,75/70       | 14,9/33          | 11,0/24    |
| 4 USI 413    | 9 plt   | 340         | 4             | 3,50/89       | 19,1/42          | 14,3/32    |
| 6 USI 413    | 11 plt  | 510         | 6             | 4,25/108      | 25,8/57          | 21,1/47    |
| 7 USI 413    | 13 plt  | 595         | 7             | 5,00/127      | 30,0/66          | 24,3/54    |
| 8 USI 413    | 15 plt  | 680         | 8             | 5,75/146      | 34,1/75          | 27,6/61    |
| 9 USI 413 *  | 17 plt  | 765         | 9             | 6,50/165      | 39,1/86          | 31,3/69    |
| 10 USI 413 * | 19 plt  | 850         | 10            | 7,25/184      | 43,5/96          | 34,4/76    |
| 11 USI 413 * | 21 plt  | 935         | 11            | 8,00/203      | 47,8/106         | 37,5/83    |
| 13 USI 413 * | 23 plt  | 1105        | 13            | 8,75/222      | 54,7/121         | 44,0/97    |
| 14 USI 413 * | 25 plt  | 1190        | 14            | 9,50/241      | 59,1/130         | 47,2/104   |
| 15 USI 413 * | 27 plt  | 1275        | 15            | 10,25/260     | 63,5/140         | 50,4/111   |

Weight: kg /Lbs

### 120Ah/plate

h1 = 28,6" / 726 mm, h2 = 29,5" / 748 mm | length = 6,2" / 158 mm

| CELL TYPE    | US Type | CAPACITY 6h | Nr. of Plates | WIDTH Inch/mm | WEIGHT with acid | WEIGHT dry |
|--------------|---------|-------------|---------------|---------------|------------------|------------|
| 2 USI 590    | 5 plt   | 240         | 2             | 2,00/51       | 15,1/33          | 10,5/23    |
| 3 USI 590    | 7 plt   | 360         | 3             | 2,75/70       | 21,3/47          | 15,2/34    |
| 4 USI 590    | 9 plt   | 480         | 4             | 3,50/89       | 27,4/60          | 19,9/44    |
| 6 USI 590    | 11 plt  | 720         | 6             | 4,25/108      | 37,4/82          | 29,4/65    |
| 7 USI 590    | 13 plt  | 840         | 7             | 5,00/127      | 43,1/95          | 34,2/75    |
| 8 USI 590    | 15 plt  | 960         | 8             | 5,75/146      | 49,5/109         | 38,9/86    |
| 9 USI 590 *  | 17 plt  | 1080        | 9             | 6,50/165      | 56,4/124         | 44,3/98    |
| 10 USI 590 * | 19 plt  | 1200        | 10            | 7,25/184      | 62,5/138         | 49,0 /108  |
| 11 USI 590 * | 21 plt  | 1320        | 11            | 8,00/203      | 68,6/151         | 53,7 /118  |
| 13 USI 590 * | 23 plt  | 1560        | 13            | 8,75/222      | 78,6/173         | 59,9/132   |
| 14 USI 590 * | 25 plt  | 1680        | 14            | 9,50/241      | 84,7/187         | 64,5/142   |
| 15 USI 590 * | 27 plt  | 1800        | 15            | 10,25/260     | 90,8/200         | 69,2/153   |

Weight: kg /Lbs

Cell height presents jar height.

Technical modifications are reserved without prior notice.

Number of plates: Number of 85Ah / 120Ah positive tubular plates.



# BS STANDARD CHARACTERISTIC DATA

Electrolyte density by 30 °C: 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.

**Cells from 9 to 11 PzB types are available with 4 poles only.**

Cells available only with 4 poles are signed with \*.

## 23Ah/plate

h1 = 216, h2 = 240 mm | length = b = 157,5 mm

| CELL TYPE    | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|--------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 46     | 2 Pgi 135       | 46          | 45       | 3,7              | 3,0             |
| 3 PzB 69     | 3 Pgi 135       | 69          | 61       | 5,4              | 4,2             |
| 4 PzB 92     | 4 Pgi 135       | 92          | 77       | 6,9              | 5,4             |
| 5 PzB 115    | 5 Pgi 135       | 115         | 93       | 8,4              | 6,6             |
| 6 PzB 138    | 6 Pgi 135       | 138         | 109      | 10,0             | 7,8             |
| 7 PzB 161    | 7 Pgi 135       | 161         | 125      | 11,6             | 9,0             |
| 8 PzB 184    | 8 Pgi 135       | 184         | 141      | 13,2             | 10,2            |
| 9 PzB 207 *  | 9 Pgi 135       | 207         | 157      | 15,3             | 11,9            |
| 10 PzB 230 * | 10 Pgi 135      | 230         | 173      | 16,9             | 13,1            |
| 11 PzB 253 * | 11 Pgi 135      | 253         | 189      | 18,4             | 14,3            |

## 42Ah/plate

h1 = 326, h2 = 350 mm | length = b = 157,5 mm

| CELL TYPE    | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|--------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 84     | 2 Pgi 250       | 84          | 45       | 6,9              | 5,4             |
| 3 PzB 126    | 3 Pgi 250       | 126         | 61       | 9,4              | 7,3             |
| 4 PzB 168    | 4 Pgi 250       | 168         | 77       | 11,9             | 9,3             |
| 5 PzB 210    | 5 Pgi 250       | 210         | 93       | 14,5             | 11,3            |
| 6 PzB 252    | 6 Pgi 250       | 252         | 109      | 17,3             | 13,5            |
| 7 PzB 294    | 7 Pgi 250       | 294         | 125      | 20,0             | 15,6            |
| 8 PzB 336    | 8 Pgi 250       | 336         | 141      | 22,3             | 17,6            |
| 9 PzB 378 *  | 9 Pgi 250       | 378         | 157      | 25,2             | 19,9            |
| 10 PzB 420 * | 10 Pgi 250      | 420         | 173      | 27,6             | 21,8            |
| 11 PzB 462 * | 11 Pgi 250      | 462         | 189      | 30,0             | 23,7            |

## 65Ah/plate

h1 = 453, h2 = 477 mm | length = b = 157,5 mm

| CELL TYPE    | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|--------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 130    | 2 Pgi 360       | 130         | 45       | 8,2              | 6,8             |
| 3 PzB 195    | 3 Pgi 360       | 195         | 61       | 12,0             | 10,1            |
| 4 PzB 260    | 4 Pgi 360       | 260         | 77       | 15,5             | 13,0            |
| 5 PzB 325    | 5 Pgi 360       | 325         | 93       | 19,0             | 16,0            |
| 6 PzB 390    | 6 Pgi 360       | 390         | 109      | 22,6             | 18,9            |
| 7 PzB 455    | 7 Pgi 360       | 455         | 125      | 26,1             | 21,8            |
| 8 PzB 520    | 8 Pgi 360       | 520         | 141      | 29,6             | 24,5            |
| 9 PzB 585 *  | 9 Pgi 360       | 585         | 157      | 33,6             | 27,9            |
| 10 PzB 650 * | 10 Pgi 360      | 650         | 173      | 37,2             | 30,6            |
| 11 PzB 715 * | 11 Pgi 360      | 715         | 189      | 40,7             | 33,3            |

## 86Ah/plate

h1 = 567, h2 = 591 mm | length = b = 157,5 mm

| CELL TYPE    | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|--------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 172    | 2 Pgi 450       | 172         | 45       | 10,7             | 8,3             |
| 3 PzB 258    | 3 Pgi 450       | 258         | 61       | 15,0             | 11,8            |
| 4 PzB 344    | 4 Pgi 450       | 344         | 77       | 19,3             | 15,2            |
| 5 PzB 430    | 5 Pgi 450       | 430         | 93       | 23,7             | 18,6            |
| 6 PzB 516    | 6 Pgi 450       | 516         | 109      | 28,1             | 22,0            |
| 7 PzB 602    | 7 Pgi 450       | 602         | 125      | 32,6             | 25,4            |
| 8 PzB 688    | 8 Pgi 450       | 688         | 141      | 37,1             | 28,8            |
| 9 PzB 774 *  | 9 Pgi 450       | 774         | 157      | 42,3             | 32,9            |
| 10 PzB 860 * | 10 Pgi 450      | 860         | 173      | 46,9             | 36,3            |
| 11 PzB 946 * | 11 Pgi 450      | 946         | 189      | 51,4             | 39,7            |

## 108Ah/plate

h1 = 688, h2 = 712 mm | length = b = 157,5 mm

| CELL TYPE     | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|---------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 216     | 2 Pgi 530       | 216         | 45       | 13,5             | 9,9             |
| 3 PzB 324     | 3 Pgi 530       | 324         | 61       | 18,9             | 14,3            |
| 4 PzB 432     | 4 Pgi 530       | 432         | 77       | 24,3             | 18,7            |
| 5 PzB 540     | 5 Pgi 530       | 540         | 93       | 29,7             | 23,2            |
| 6 PzB 648     | 6 Pgi 530       | 648         | 109      | 35,1             | 27,6            |
| 7 PzB 756     | 7 Pgi 530       | 756         | 125      | 40,5             | 32,1            |
| 8 PzB 864     | 8 Pgi 530       | 864         | 141      | 45,9             | 36,5            |
| 9 PzB 972 *   | 9 Pgi 530       | 972         | 157      | 52,0             | 41,6            |
| 10 PzB 1080 * | 10 Pgi 530      | 1080        | 173      | 57,4             | 46,0            |
| 11 PzB 1188 * | 11 Pgi 530      | 1188        | 189      | 62,8             | 50,4            |

## 32Ah/plate

h1 = 260, h2 = 284 mm | length = b = 157,5 mm

| CELL TYPE    | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|--------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 64     | 2 Pgi 190       | 64          | 45       | 5,1              | 4,0             |
| 3 PzB 96     | 3 Pgi 190       | 96          | 61       | 7,1              | 5,6             |
| 4 PzB 128    | 4 Pgi 190       | 128         | 77       | 9,2              | 7,2             |
| 5 PzB 160    | 5 Pgi 190       | 160         | 93       | 11,3             | 8,8             |
| 6 PzB 192    | 6 Pgi 190       | 192         | 109      | 13,2             | 10,3            |
| 7 PzB 224    | 7 Pgi 190       | 224         | 125      | 15,0             | 11,7            |
| 8 PzB 256    | 8 Pgi 190       | 256         | 141      | 16,8             | 13,1            |
| 9 PzB 288 *  | 9 Pgi 190       | 288         | 157      | 19,1             | 14,9            |
| 10 PzB 320 * | 10 Pgi 190      | 320         | 173      | 20,9             | 16,3            |
| 11 PzB 352 * | 11 Pgi 190      | 352         | 189      | 22,7             | 17,7            |

## 55Ah/plate

h1 = 399, h2 = 423 mm | length = b = 157,5 mm

| CELL TYPE    | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|--------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 110    | 2 Pgi 310       | 110         | 45       | 7,6              | 6,1             |
| 3 PzB 165    | 3 Pgi 310       | 165         | 61       | 10,5             | 8,5             |
| 4 PzB 220    | 4 Pgi 310       | 220         | 77       | 13,5             | 11,0            |
| 5 PzB 275    | 5 Pgi 310       | 275         | 93       | 16,5             | 13,5            |
| 6 PzB 330    | 6 Pgi 310       | 330         | 109      | 19,6             | 15,9            |
| 7 PzB 385    | 7 Pgi 310       | 385         | 125      | 22,6             | 18,4            |
| 8 PzB 440    | 8 Pgi 310       | 440         | 141      | 25,6             | 20,8            |
| 9 PzB 495 *  | 9 Pgi 310       | 495         | 157      | 29,1             | 23,8            |
| 10 PzB 550 * | 10 Pgi 310      | 550         | 173      | 32,1             | 26,3            |
| 11 PzB 605 * | 11 Pgi 310      | 605         | 189      | 35,2             | 28,7            |

## 75Ah/plate

h1 = 513, h2 = 537 mm | length = b = 157,5 mm

| CELL TYPE    | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|--------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 150    | 2 Pgi 413       | 150         | 45       | 10,0             | 7,5             |
| 3 PzB 225    | 3 Pgi 413       | 225         | 61       | 13,9             | 10,8            |
| 4 PzB 300    | 4 Pgi 413       | 300         | 77       | 17,8             | 14,1            |
| 5 PzB 375    | 5 Pgi 413       | 375         | 93       | 21,6             | 17,5            |
| 6 PzB 450    | 6 Pgi 413       | 450         | 109      | 25,6             | 20,9            |
| 7 PzB 525    | 7 Pgi 413       | 525         | 125      | 29,6             | 24,1            |
| 8 PzB 600    | 8 Pgi 413       | 600         | 141      | 33,5             | 27,4            |
| 9 PzB 675 *  | 9 Pgi 413       | 675         | 157      | 38,2             | 31,1            |
| 10 PzB 750 * | 10 Pgi 413      | 750         | 173      | 42,3             | 34,2            |
| 11 PzB 825 * | 11 Pgi 413      | 825         | 189      | 46,4             | 37,3            |

## 100Ah/plate

h1 = 608 h2 = 632 mm | length = b = 157,5 mm

| CELL TYPE     | TAB DESIGNATION | CAPACITY 5h | WIDTH mm | WEIGHT with acid | WEIGHT dry (kg) |
|---------------|-----------------|-------------|----------|------------------|-----------------|
| 2 PzB 200     | 2 Pgi 492       | 200         | 45       | 11,8             | 9,4             |
| 3 PzB 300     | 3 Pgi 492       | 300         | 61       | 16,6             | 13,5            |
| 4 PzB 400     | 4 Pgi 492       | 400         | 77       | 21,5             | 17,5            |
| 5 PzB 500     | 5 Pgi 492       | 500         | 93       | 26,4             | 21,6            |
| 6 PzB 600     | 6 Pgi 492       | 600         | 109      | 31,5             | 25,6            |
| 7 PzB 700     | 7 Pgi 492       | 700         | 125      | 36,4             | 29,7            |
| 8 PzB 800     | 8 Pgi 492       | 800         | 141      | 41,4             | 33,7            |
| 9 PzB 900 *   | 9 Pgi 492       | 900         | 157      | 47,1             | 38,6            |
| 10 PzB 1000 * | 10 Pgi 492      | 1000        | 173      | 52,0             | 42,7            |
| 11 PzB 1100 * | 11 Pgi 492      | 1100        | 189      | 56,9             | 46,7            |



# TAB GEL TRACTION

Maintenance free TAB Gel batteries are high sophisticated traction batteries in the family of TAB motive power products.

Sealed TAB Gel batteries are produced in VRLA Gel technology (Valve Regulated Lead Acid batteries with electrolyte in the form of gel) according to EN 60254-2 standard.

They can be used in all kind of electrical appliances like forklift trucks, electric road machines, cleaning machines, etc.

Due to its high operational safety and high degree of environmental friendliness TAB Gel battery is particularly suitable for applications in pharmaceutical, food, chemical and similar industries.

## Main characteristics

- MAINTENANCE FREE
- INCORPORATED VALVES IN EXHAUST TUBES PREVENT CORROSIVE GAS RELEASE
- EXTREMELY LOW SELF-DISCHARGE
- EXTREMELY LOW GASSING DURING OPERATION
- MAINTENANCE ERRORS ARE MINIMIZED
- NO ELECTROLYTE LEAKAGE IN CASE OF CELL DAMAGE
- NO CONTAMINATION OR CORROSION DUE TO LEAKING ELECTROLYTE



## PzV STANDARD CHARACTERISTIC DATA

### 55Ah/plate

h1 = 340, h2 = 350 mm | length = b = 198 mm

| CELL TYPE | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|-----------|-------------|----------|------------------|
| 2 PzV 110 | 110         | 47       | 9,3              |
| 3 PzV 165 | 165         | 65       | 12,7             |
| 4 PzV 220 | 220         | 83       | 16,5             |
| 5 PzV 275 | 275         | 101      | 20,1             |
| 6 PzV 330 | 330         | 119      | 23,8             |
| 7 PzV 385 | 385         | 137      | 27,4             |

### 100Ah/plate

h1 = 563, h2 = 573 mm | length = b = 198 mm

| CELL TYPE | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|-----------|-------------|----------|------------------|
| 2 PzV 200 | 200         | 47       | 14,7             |
| 3 PzV 300 | 300         | 65       | 21,6             |
| 4 PzV 400 | 400         | 83       | 27,8             |
| 5 PzV 500 | 500         | 101      | 34,3             |
| 6 PzV 600 | 600         | 119      | 40,6             |

### 70Ah/plate

h1 = 402, h2 = 412 mm | length = b = 198 mm

| CELL TYPE | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|-----------|-------------|----------|------------------|
| 2 PzV 140 | 140         | 47       | 10,8             |
| 3 PzV 210 | 210         | 65       | 15,5             |
| 4 PzV 280 | 280         | 83       | 19,7             |
| 5 PzV 350 | 350         | 101      | 24,2             |
| 6 PzV 420 | 420         | 119      | 29,1             |

### 120Ah/plate

h1 = 720, h2 = 730 mm | length = b = 198 mm

| CELL TYPE | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|-----------|-------------|----------|------------------|
| 2 PzV 240 | 240         | 47       | 19,7             |
| 3 PzV 360 | 360         | 65       | 27,4             |
| 4 PzV 480 | 480         | 83       | 35,3             |
| 5 PzV 600 | 600         | 101      | 42,1             |
| 6 PzV 720 | 720         | 119      | 50,0             |

### 80Ah/plate

h1 = 472, h2 = 482 mm | length = b = 198 mm

| CELL TYPE | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|-----------|-------------|----------|------------------|
| 2 PzV 160 | 160         | 47       | 12,7             |
| 3 PzV 240 | 240         | 65       | 18,1             |
| 4 PzV 320 | 320         | 83       | 23,6             |
| 5 PzV 400 | 400         | 101      | 29,0             |
| 6 PzV 480 | 480         | 119      | 35,0             |

## PzVB STANDARD

### 61Ah/plate

h1 = 472, h2 = 486 mm | length = b = 157,5 mm

| CELL TYPE  | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|------------|-------------|----------|------------------|
| 2 PzVB 122 | 122         | 45       | 9,7              |
| 3 PzVB 183 | 183         | 61       | 13,5             |
| 4 PzVB 244 | 244         | 77       | 16,9             |

### 71Ah/plate

h1 = 516, h2 = 530 mm | length = b = 157,5 mm

| CELL TYPE  | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|------------|-------------|----------|------------------|
| 2 PzVB 142 | 142         | 45       | 10,6             |
| 3 PzVB 213 | 213         | 61       | 14,8             |
| 4 PzVB 284 | 284         | 77       | 18,5             |

### 85Ah/plate

h1 = 611, h2 = 625 mm | length = b = 157,5 mm

| CELL TYPE  | CAPACITY C5 | WIDTH mm | WEIGHT with acid |
|------------|-------------|----------|------------------|
| 2 PzVB 170 | 170         | 45       | 11,8             |
| 3 PzVB 255 | 255         | 61       | 16,1             |
| 4 PzVB 340 | 340         | 77       | 20,7             |

## TAB-EX APPLICATION FIELD

**Assembly of ex batteries operating  
in various applications:**

- MINING
- PETROCHEMISTRY
- CHEMISTRY
- PHARMACY
- STORAGE DEPOTS

# Ex

**TAB-EX TRACTION CELLS COMPLYING  
WITH TRACTION BATTERY STANDARDS  
EN/IEC 60254-1 AND 60254-2 ARE COMPONENT  
CERTIFIED FOR ASSEMBLY OF BATTERIES  
USED IN ZONE AREAS WITH RISKS OF  
EXPLOSION DUE TO FLAMMABLE GAS OR DUST:**

**Group I Category M2:**  
Ex e I Mb

**Group II Category 2 and 3:**  
Zone 1 and 2 (Gas), 21 and 22 (Dust):  
Ex e IIC Gb  
Ex t IIIC Db IP 64

THE CELLS ARE PRODUCED IN  
ACCORDANCE WITH THE DIRECTIVE  
94/9/EC IN IECEX CERTIFICATION  
SCHEME AND FULFILL THE  
APPLICABLE REQUIREMENTS OF  
DIRECTIVE HARMONIZED STANDARDS  
EN/IEC 60079-0 AND 60079-7.



### CERTIFICATES

Traction batteries:  
**PzS, PzV, PzB and PzBV**

ATEX Certificate:  
**Sira 10ATEX3255U**  
**SIQ 11 ATEX Q 327-0**

IECEX Certificate:  
**IECEX SIR 11.0157U**

**TAB-EX cells are available for the following range:**

- All DIN and DIN S types except for cells with 12 positive plates
- All BS types except for cells from 9 to 11 positive plates
- All PzVB and PzV gel cells



# TAB AQUALESS TRACTION PzRM BATTERIES

## CELL DESIGN

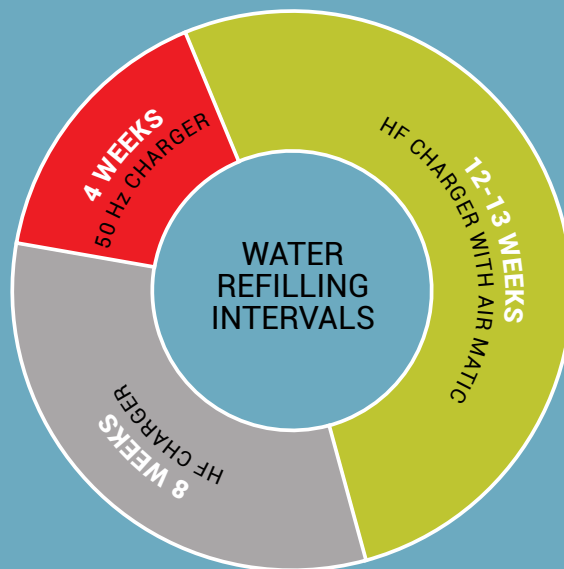
with proven PzS technology using tubular plates in combination with an adjusted charging regime results in extended watering intervals. TAB PzRM cells are manufactured and tested according to EN60254-1 and IEC254-1.

## Main advantages

- WATER REFILL INTERVAL IS EFFICIENTLY PROLONGED
- REDUCED WATER CONSUMPTION
- LOW MAINTENANCE AND REDUCED OPERATIONAL COSTS
- REDUCED CHARGING FACTOR
- 50 TO 80% REDUCED GAS RELEASE
- AND VENTILATION REQUIREMENTS
- 20 TO 30% LESS CHARGING TIME
- COST SAVING DUE TO LOWER ENERGY CONSUMPTION FROM 10 TO 20%
- REDUCED OPERATING TEMPERATURES



Water refill interval is efficiently prolonged



## TAB Aqualess

| TAB AQUALESS                 | AQUA 1   | AQUA 2    | AQUA 3         |
|------------------------------|----------|-----------|----------------|
| Refilling Interval in weeks  | 4        | 8         | 12-13          |
| Charger                      | 50 Hz    | HF        | HF + Air Matic |
| Charging Factor              | 1.2      | 1.10-1.11 | 1.07-1.08      |
| Electrolyte Level indicator  | SERIAL   | SERIAL    | SERIAL         |
| Central Water Filling System | OPTIONAL | OPTIONAL  | OPTIONAL       |
| Air Matic                    | OPTIONAL | OPTIONAL  | SERIAL         |

Condition: water refilling intervals are based on 80% DOD - 1 cycle per day; 5 days per week

## TAB AQUALESS BATTERY SPECIFICATIONS:

- water refilling interval up to 13 weeks (at normal duty applications with 80% DOD C5, 1 cycle per day; 5 days per week, Electrolyte T=30°C)
- for these batteries proper chargers must be used
- cells are equipped with Electrolyte Mixing system (using charger with integrated air)
- batteries are assembled with Central Water Filling system
- each battery has an Electrolyte Level Sensor (length according manufacturer specifications). With its red light it gives signal to the user when water refilling is needed



### 80Ah/plate

h1 = 402, h2 = 425 mm | length = b = 198 mm

| CELL TYPE    | CAPACITY C5 | WIDTH mm | WEIGHT kg |
|--------------|-------------|----------|-----------|
| 2 PzRM160    | 160         | 47       | 10,2      |
| 3 PzRM240    | 240         | 65       | 14,5      |
| 4 PzRM320    | 320         | 83       | 18,7      |
| 5 PzRM400    | 400         | 101      | 22,9      |
| 6 PzRM480    | 480         | 119      | 27,1      |
| 7 PzRM560    | 560         | 137      | 31,3      |
| 8 PzRM640    | 640         | 155      | 35,5      |
| 9 PzRM720    | 720         | 173      | 39,7      |
| 10 PzRM800   | 800         | 191      | 43,9      |
| 12 PzRM960 * | 960         | 227      | 52,6      |

### 115Ah/plate

h1 = 545, h2 = 568 mm | length = b = 198 mm

| CELL TYPE     | CAPACITY C5 | WIDTH mm | WEIGHT kg |
|---------------|-------------|----------|-----------|
| 2 PzRM230     | 230         | 47       | 14,0      |
| 3 PzRM345     | 345         | 65       | 19,5      |
| 4 PzRM460     | 460         | 83       | 25,0      |
| 5 PzRM575     | 575         | 101      | 30,6      |
| 6 PzRM690     | 690         | 119      | 36,2      |
| 7 PzRM805     | 805         | 137      | 41,8      |
| 8 PzRM920     | 920         | 155      | 47,4      |
| 9 PzRM1035    | 1035        | 173      | 53,2      |
| 10 PzRM1150   | 1150        | 191      | 58,9      |
| 12 PzRM1380 * | 1380        | 227      | 70,1      |

### 90Ah/plate

h1 = 472, h2 = 495 mm | length = b = 198 mm

| CELL TYPE     | CAPACITY C5 | WIDTH mm | WEIGHT kg |
|---------------|-------------|----------|-----------|
| 2 PzRM180     | 180         | 47       | 11,6      |
| 3 PzRM270     | 270         | 65       | 16,6      |
| 4 PzRM360     | 360         | 83       | 21,4      |
| 5 PzRM450     | 450         | 101      | 26,2      |
| 6 PzRM540     | 540         | 119      | 31,0      |
| 7 PzRM630     | 630         | 137      | 35,8      |
| 8 PzRM720     | 720         | 155      | 40,6      |
| 9 PzRM810     | 810         | 173      | 45,4      |
| 10 PzRM900    | 900         | 191      | 50,2      |
| 12 PzRM1080 * | 1080        | 227      | 60,1      |

### 125Ah/plate

h1 = 570, h2 = 593 mm | length = b = 198 mm

| CELL TYPE     | CAPACITY C5 | WIDTH mm | WEIGHT kg |
|---------------|-------------|----------|-----------|
| 2 PzRM250     | 250         | 47       | 14,5      |
| 3 PzRM375     | 375         | 65       | 20,5      |
| 4 PzRM500     | 500         | 83       | 26,5      |
| 5 PzRM625     | 625         | 101      | 32,5      |
| 6 PzRM750     | 750         | 119      | 38,5      |
| 7 PzRM875     | 875         | 137      | 44,5      |
| 8 PzRM1000    | 1000        | 155      | 50,5      |
| 9 PzRM1125    | 1125        | 173      | 56,8      |
| 10 PzRM1250   | 1250        | 191      | 62,8      |
| 12 PzRM1500 * | 1500        | 227      | 74,8      |

### 105Ah/plate

h1 = 515, h2 = 538 mm | length = b = 198 mm

| CELL TYPE     | CAPACITY C5 | WIDTH mm | WEIGHT kg |
|---------------|-------------|----------|-----------|
| 2 PzRM210     | 210         | 47       | 13,3      |
| 3 PzRM315     | 315         | 65       | 18,3      |
| 4 PzRM420     | 420         | 83       | 23,7      |
| 5 PzRM525     | 525         | 101      | 29,1      |
| 6 PzRM630     | 630         | 119      | 34,5      |
| 7 PzRM735     | 735         | 137      | 39,9      |
| 8 PzRM840     | 840         | 155      | 45,3      |
| 9 PzRM945     | 945         | 173      | 50,7      |
| 10 PzRM1050   | 1050        | 191      | 56,4      |
| 12 PzRM1260 * | 1260        | 227      | 67,2      |

### 140Ah/plate

h1 = 686, h2 = 709 mm | length = b = 198 mm

| CELL TYPE     | CAPACITY C5 | WIDTH mm | WEIGHT kg |
|---------------|-------------|----------|-----------|
| 2 PzRM280     | 280         | 47       | 18,5      |
| 3 PzRM420     | 420         | 65       | 25,3      |
| 4 PzRM560     | 560         | 83       | 32,2      |
| 5 PzRM700     | 700         | 101      | 39,5      |
| 6 PzRM840     | 840         | 119      | 46,7      |
| 7 PzRM980     | 980         | 137      | 54,0      |
| 8 PzRM1120    | 1120        | 155      | 61,2      |
| 9 PzRM1260    | 1260        | 173      | 68,8      |
| 10 PzRM1400 * | 1400        | 191      | 76,0      |
| 12 PzRM1680 * | 1680        | 227      | 90,5      |

### 155Ah/plate

h1 = 720, h2 = 743 mm | length = b = 198 mm

| CELL TYPE     | CAPACITY C5 | WIDTH mm | WEIGHT kg |
|---------------|-------------|----------|-----------|
| 2 PzRM310     | 310         | 47       | 18,8      |
| 3 PzRM465     | 465         | 65       | 26,1      |
| 4 PzRM620     | 620         | 83       | 33,5      |
| 5 PzRM775     | 775         | 101      | 41,1      |
| 6 PzRM930     | 930         | 119      | 48,9      |
| 7 PzRM1085    | 1085        | 137      | 56,7      |
| 8 PzRM1240    | 1240        | 155      | 64,5      |
| 9 PzRM1395    | 1395        | 173      | 72,8      |
| 10 PzRM1550 * | 1550        | 191      | 80,6      |
| 12 PzRM1860 * | 1860        | 227      | 96,2      |

Electrolyte density by 30 °C: 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.

Cells from 7 to 10 PzRM types are available with 2 and 4 poles. For 4 poles, please specify in your order. 10 PzRM 1400, 10 PzRM 1550 and all 12 PzRM cells are available with 4 poles only.

Cells available only with 4 poles are signed with \*.

**TAB**   
Aqualess batteries



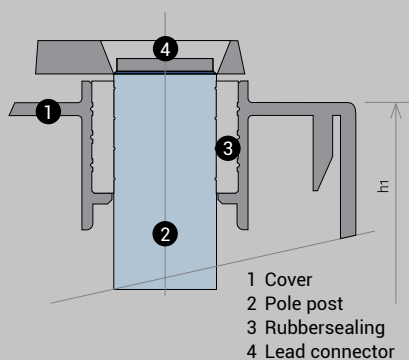
One of the very important production part of your company is internal logistics. We are introducing our traction batteries TAB which have been satisfying the most demanding users for more than half a century. Batteries are known by their: high capacity, long life-time, resistance to vibrations, short charging times, low consumption of distilled water, simple maintenance.

## Battery application.

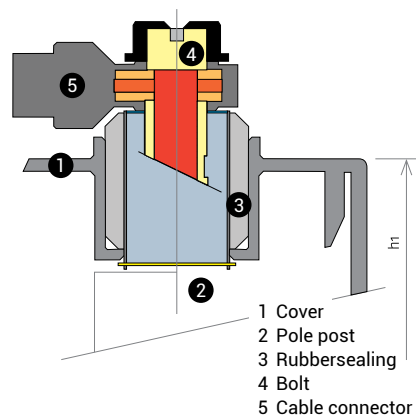
Traction batteries TAB of type PzS and PzB are according to EN 60254-1,2 and IEC 254-1,2 and are appropriated for propulsion of different electrical machines (forklifts, mine locomotives, etc.).

## ENERGY IN MOTION

### TERMINAL POST WELDED VERSION



### TERMINAL POST BOLTED VERSION



### BOTH VERSIONS ARE BEING MANUFACTURED:

- **DRY-CHARGED VERSION:**  
a battery / cell has to be filled up with an electrolyte and supplementary charged before use. The Plates are already formed and in special process protected against oxidation. They can be stored up to two years.
- **ELECTROLYTE-CHARGED:**  
a battery / cell can be installed immediately, because it is already filled up with electrolyte and electrically charged as well.

# We highly recommend the use of additional systems:

- **CENTRAL WATER FILLING SYSTEM (AQUAMATIC):** Each cell is equipped with aquamatic plug, combined with tubes and water drums. At the same time enables central water filling for whole the battery. Enables quick and precise service of whole battery under any working conditions.
- **ELECTROLYTE MIXING SYSTEM (AIRMATIC)** which allows faster charging of battery. Each cell is equipped with special airmixing tube. Tubes are combined together with PVC tubes and connected trough connector to air compressor. Air compressor is already built in charger or can be installed additionally into ordinary charger with charging principle IU; WoWa. Air consumption per hour is 60 litres/cell by operational pressure 0,2 Bars. System is operating all the time during the charging. System allows an electric vehicle to be in operation for 16 hours without changing the battery.
- **CAPACITIVE BATTERY ELECTROLYTE LEVEL SENSOR** which 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.
- **BATTERY MONITORING SYSTEM** allows you to see real time status of your batteries. Our battery monitoring system is able to provide:
  - full statistical analysis of battery's performance (capacity, load levels, charging and discharging characteristics);
  - breakdown of each machine's performance (when and how it was used, when it was charged, etc.);
  - real time information and alerts via email or phone.



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