

# THE POWER OF SQUARE

## Advanced battery solution

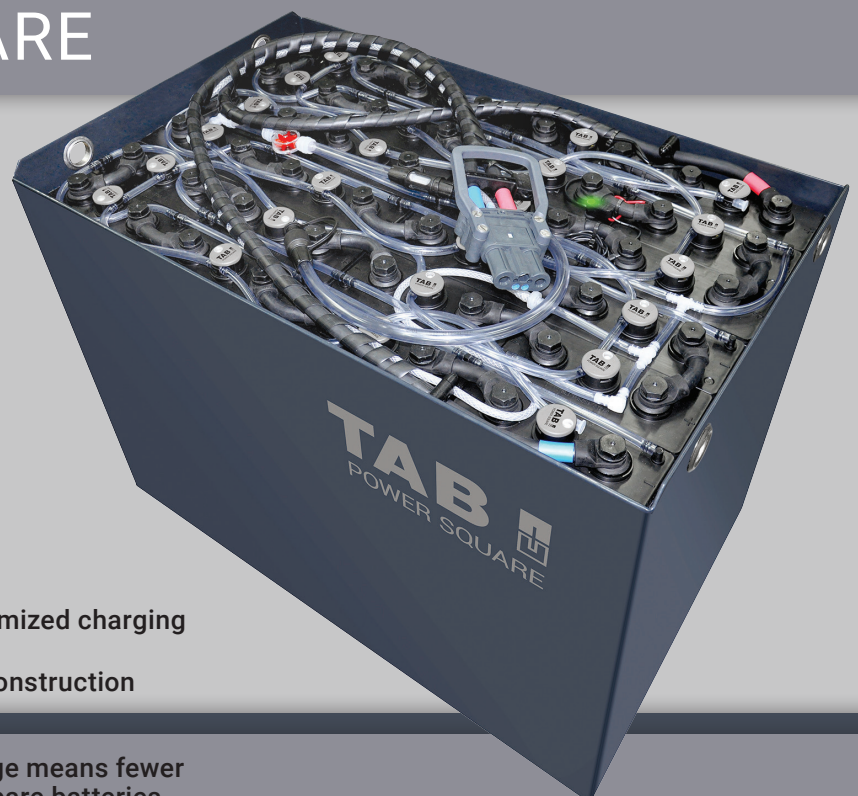
**TAB POWER SQUARE** batteries are designed to deliver more power and longer run time comparing to conventional lead-acid batteries and are perfect choice to meet the needs of heavy-duty applications.

**SQUARE POSITIVE TUBULAR PLATE** designs allow more active material surface area to be exposed to electrolyte with higher specific gravity which leads to **INCREASED POWER** and **PROLONGED RUN TIME** of the battery compared to conventional lead-acid batteries with round tube design.

## TAB POWER SQUARE

### ADVANTAGES OF TAB POWER SQUARE TRACTION BATTERIES:

- suitable for heavy-duty applications
- increased capacity in standard cell design/volume
- more active material on positive plates
- more power due to bigger plate surface compared to standard round tube design
- more positive active material surface area exposed to electrolyte with higher specific gravity
- plates can sustain higher levels of voltage throughout the discharge cycle
- higher robustness of the plates
- prolonged run time of the forklift within one cycle – fewer spare batteries needed
- special chargers equipped with faster customized charging profiles allow also opportunity charging
- prolonged cycle life based on robust plate construction



**PROLONGED RUN TIME** on each battery charge means fewer battery charge required and fewer needs of spare batteries.

**ENERGY IN MOTION**



## TAB POWER SQUARE BATTERIES ARE EQUIPPED WITH:

- **AQUAMATIC** / central water filling system /
- **AIRMATIC** / electrolyte mixing system /
- Capacitive battery **ELECTROLYTE LEVEL SENSOR**
- **BMS** / battery monitoring system / (optional)



## TAB POWER SQUARE

### 140 Ah Plate

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

| CELL TYPE          | CAPACITY 5h | WIDTH a (mm) | WEIGHT With acid (kg) | WEIGHT Dry (kg) |
|--------------------|-------------|--------------|-----------------------|-----------------|
| 2 PSQ 280          | 280         | 47           | 15,5                  | 12,4            |
| 3 PSQ 420          | 420         | 65           | 21,9                  | 17,4            |
| 4 PSQ 560          | 560         | 83           | 28,4                  | 22,6            |
| 5 PSQ 700          | 700         | 101          | 35,0                  | 27,9            |
| 6 PSQ 840          | 840         | 119          | 41,5                  | 33,1            |
| 7 PSQ 980          | 980         | 137          | 48,1                  | 38,4            |
| 8 PSQ 1120         | 1120        | 155          | 54,6                  | 43,6            |
| <b>9 PSQ 1260</b>  | 1260        | 173          | 61,6                  | 49,3            |
| <b>10 PSQ 1400</b> | 1400        | 191          | 68,1                  | 54,5            |
| <b>12 PSQ 1680</b> | 1680        | 227          | 81,2                  | 65,0            |

### 170 Ah Plate

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

| CELL TYPE          | CAPACITY 5h | WIDTH a (mm) | WEIGHT With acid (kg) | WEIGHT Dry (kg) |
|--------------------|-------------|--------------|-----------------------|-----------------|
| 2 PSQ 340          | 340         | 47           | 22,4                  | 15,8            |
| 3 PSQ 510          | 510         | 65           | 27,4                  | 21,8            |
| 4 PSQ 680          | 680         | 83           | 35,1                  | 28,3            |
| 5 PSQ 850          | 850         | 101          | 43,1                  | 34,8            |
| 6 PSQ 1020         | 1020        | 119          | 51,2                  | 41,3            |
| 7 PSQ 1190         | 1190        | 137          | 59,4                  | 47,8            |
| 8 PSQ 1360         | 1360        | 155          | 67,5                  | 54,3            |
| <b>9 PSQ 1530</b>  | 1530        | 173          | 76,4                  | 61,4            |
| <b>10 PSQ 1700</b> | 1700        | 191          | 84,5                  | 67,9            |
| <b>12 PSQ 2040</b> | 2040        | 227          | 100,8                 | 80,8            |

Electrolyte density at 30 °C: 1,31 ± 0.01kg/l. Weight tolerance is ± 5%.

Cells from 9 to 12 PSQ types are available with 4 poles only.



# ENERGY IN MOTION