

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 design allows 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

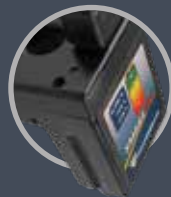


PROLONGED RUN TIME on each battery charge means fewer battery charge required and fewer needs of spare batteries.

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
9 PSQ 1260	1260	173	61,6	49,3
10 PSQ 1400	1400	191	68,1	54,5
12 PSQ 1680	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
9 PSQ 1530	1530	173	76,4	61,4
10 PSQ 1700	1700	191	84,5	67,9
12 PSQ 2040	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