

Traction batteries

SQUARE - PSQ

SQUARE batteries are designed to deliver more power and longer run time comparing to conventional lead-acid batteries and are the 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.

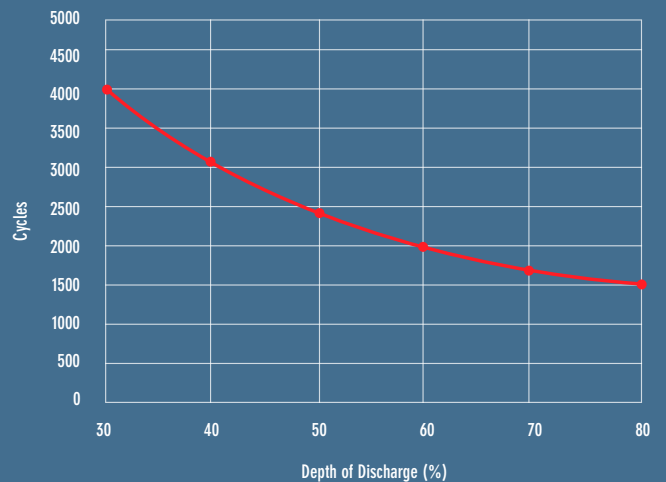
Prolonged run time on each battery charge means fewer battery change required and less need of spare batteries.



BENEFITS

- 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 also allow opportunity charging
- The chargers with specific charge curves allow to charge faster and to make intermediate charges PzSQ charge with 20A/100Ah (Standard PzS: 16A/100Ah)
- Prolonged cycle life based on robust plate construction

SERVICE LIFE: 1500 CYCLES DOD 80%



Cycle life in relation to Depth of discharge

APPLICATIONS



Heavy-duty applications

Forklift high-rack (12m)



Cell Type DIN							
CELL TYPE	Capacity (Ah/5h)	Weight (Kg)		Dimensions (mm)			
		Dry	Filled	X	Y	H	h
2 PSQ 280	280	15,5	12,4	47	198	593	570
3 PSQ 420	420	21,9	17,4	65	198	593	570
4 PSQ 560	560	28,4	22,6	83	198	593	570
5 PSQ 700	700	35,0	27,9	101	198	593	570
6 PSQ 840	840	41,5	33,1	119	198	593	570
7 PSQ 980	980	48,1	38,4	137	198	593	570
8 PSQ 1120	1120	54,6	43,6	155	198	593	570
9 PSQ 1260	1260	61,6	49,3	173	198	593	570
10 PSQ 1400	1400	68,1	54,5	191	198	593	570
12 PSQ 1680	1680	81,2	65,0	227	198	593	570
2 PSQ 340	340	22,4	15,8	47	198	743	720
3 PSQ 510	510	27,4	21,8	65	198	743	720
4 PSQ 680	680	35,1	28,3	83	198	743	720
5 PSQ 850	850	43,1	34,8	101	198	743	720
6 PSQ 1020	1020	51,2	41,3	119	198	743	720
7 PSQ 1190	1190	59,4	47,8	137	198	743	720
8 PSQ 1360	1360	67,5	54,3	155	198	743	720
9 PSQ 1530	1530	76,4	61,4	173	198	743	720
10 PSQ 1700	1700	84,5	67,9	191	198	743	720
12 PSQ 2040	2040	100,8	80,8	227	198	743	720



 **SQUARE POSITIVE TUBULAR PLATE**

4 Poles

STANDARD:
CENTRAL WATER
FILLING SYSTEM



STANDARD:
ACID
CIRCULATION



STANDARD:
ELECTROLYTE
LEVEL SENSOR



OPTIONAL:
DATALOGGER

