

Total Solutions System

**TRACTION BATTERIES**



**WINNER<sup>®</sup>**  
**BATTERY**



**SUPERIOR QUALITY PRODUCT**

# Total Solutions System TRACTION BATTERIES

# WINNER®

BATTERY

Winner is a superior quality product which provides a "Total Solution System" for a wide range of battery applications. Product characteristics include excellent reliability, long life and modern design.

WINNER TRACTION batteries is a "Total Solution" created to meet all the needs of today's warehouse and its operations. Designed for excellence, WINNER TRACTION batteries cover complete ranges of cells according to DIN, BS and JIS standards.

Winner "Traction Total Solution" covers the battery needs of all kinds of material handling equipment, electric sweeper, service power systems in ships and yachts, lawn movers, scissor lifts, railway.



## TECHNICAL FEATURES

- Reliable motive power for trouble free work every day
- Maximum operational life under continuous deep discharge applications
- Complete ranges according to DIN and BS standards
- Robust positive tubular plate made by High Pressure Casting Process (HPCP), which protects the lead plate support from the anodic corrosion.
- Available only in Screwed version with flexible copper bolt-on connectors

## ACCESSORIES

- Auto-Fill (AF) - Automatic water filling system
- Air-Mix (AM) - In-cell electrolyte circulation device agitation

## SERIES

### ATLAS

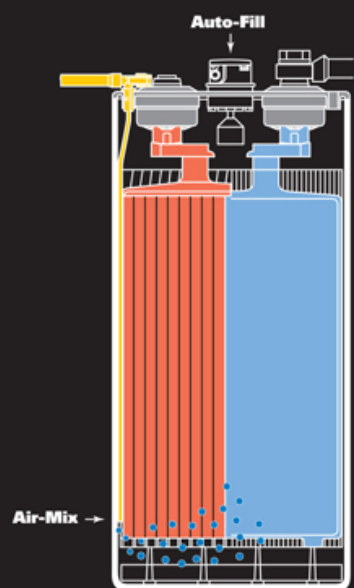
- Full range of High capacity EPzS cells
- Design according to DIN-L specifications
- Cell dimension length 198mm

### CRONUS

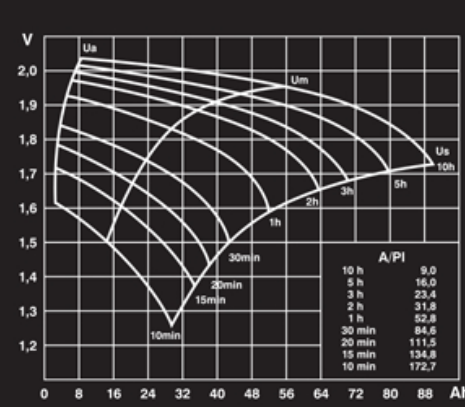
- Full range of High capacity EPzB cells
- Design according to BS specifications
- Cell dimension length 158mm

## STANDARDS

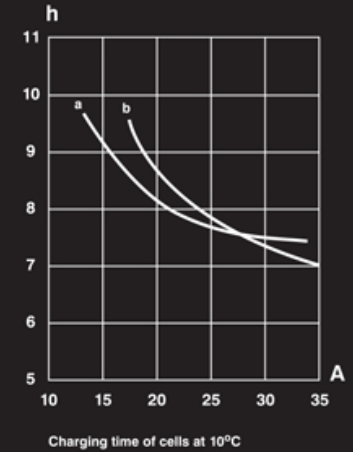
- EN 60254-1
- EN 60254-2
- DIN 43595
- BS 2550



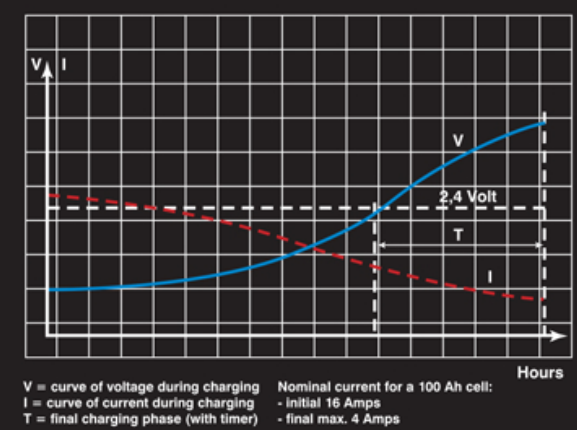
## Discharge characteristics



## Charging time



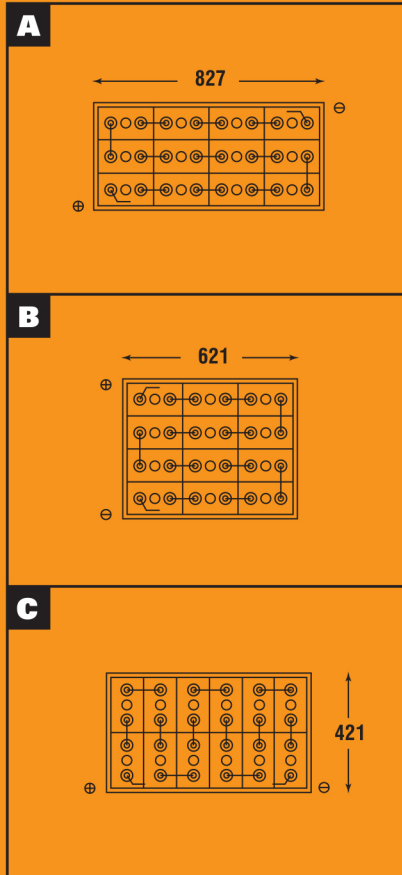
## Charging method (Wa)



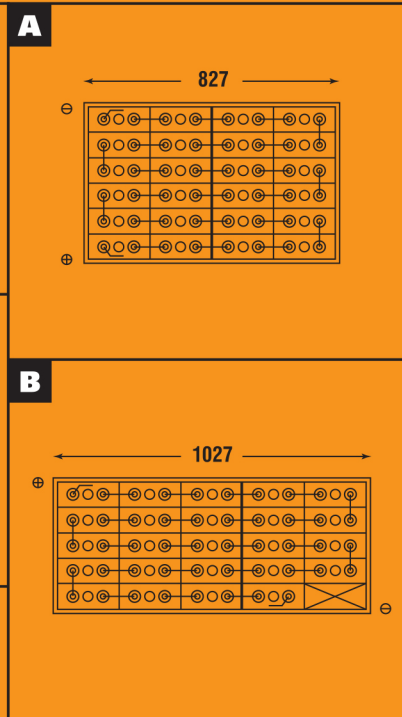
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# DIN TRAY DIMENSIONS

## DIN 43535 - 24 Volts



## DIN 43531 - 48 Volts



## DIN 43536 - 80 Volts

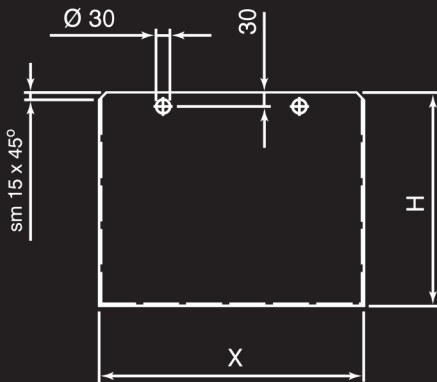
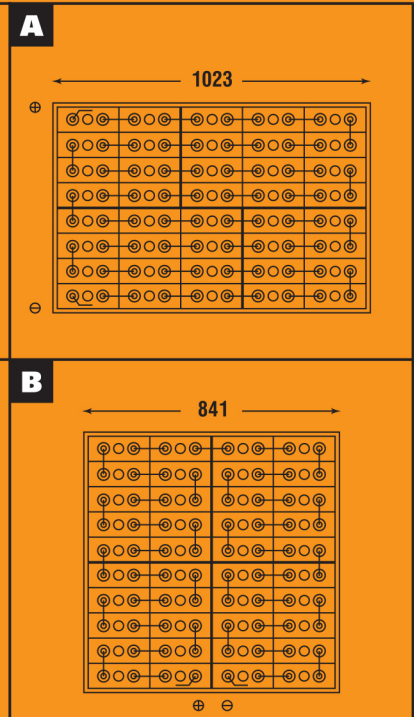


Plate number	24 Volts			48 Volts		80 Volts	
	A	B	C	A	B	A	B
2	162	209	(303)	-	-	-	513
3	216	281	(411)	411	346	561	693
4	270	353	(519)	519	436	705	873
5	324	425	(627)	627	526	849	1061
6	378	497	(741)	735	616	993	1210
7	432	569	(849)	843	706	1137	-
8	486	641	(957)	951	796	1281	-
9	543	-	-	-	-	-	-
10	597	-	-	-	-	-	-

PLATE GROUP AH	50-60	80	90	105-115-125	125-140-155
H	402	462	537	627	784