



BREEAM CERTIFICATED
ENVIRONMENT FRIENDLY
MANUFACTURING

MOTIVE POWER TRACTION BATTERIES

inci
BATTERY®
Lifelong Energy





inci BATTERY TRACTION BATTERIES

inci GS Yuasa is one of the most important players of the sector from the foundation till today with a lot of innovations. Export to 80 countries, approved R&D center in 2009, inci GS Yuasa produces industrial batteries in environment friendly BREEAM certified high tech plant.

inci Battery tractionary batteries with long life, safe usage, short charging duration with low electricity costs, provides best solutions for electric powered vehicles with inci GS Yuasa quality.

Compatible with all types vehicles with German DIN norms inci Battery traction batteries offer plate capacity range from 60 Ah up to 155 Ah.

www.incibattery.com



INNOVATIVE SOLUTIONS

- Isolated poles with screw and polypropylene bolt pin
- Energy Saving up to 20% with Air-Mix system
- Specially produced durable high quality tray

FIELD of APPLICATION

- Forklift Trucks
- Transpallet
- Stackers
- Order Pickers
- Mine Locomotives
- Cleaning Vehicles
- Belt Conveyors

SPECIFICATIONS

Positive Plate: Tubular grid with gauntlet

Negative Plate: Flat grid

Electrolyte: 1,280 gr/cm³ sulfuric acid

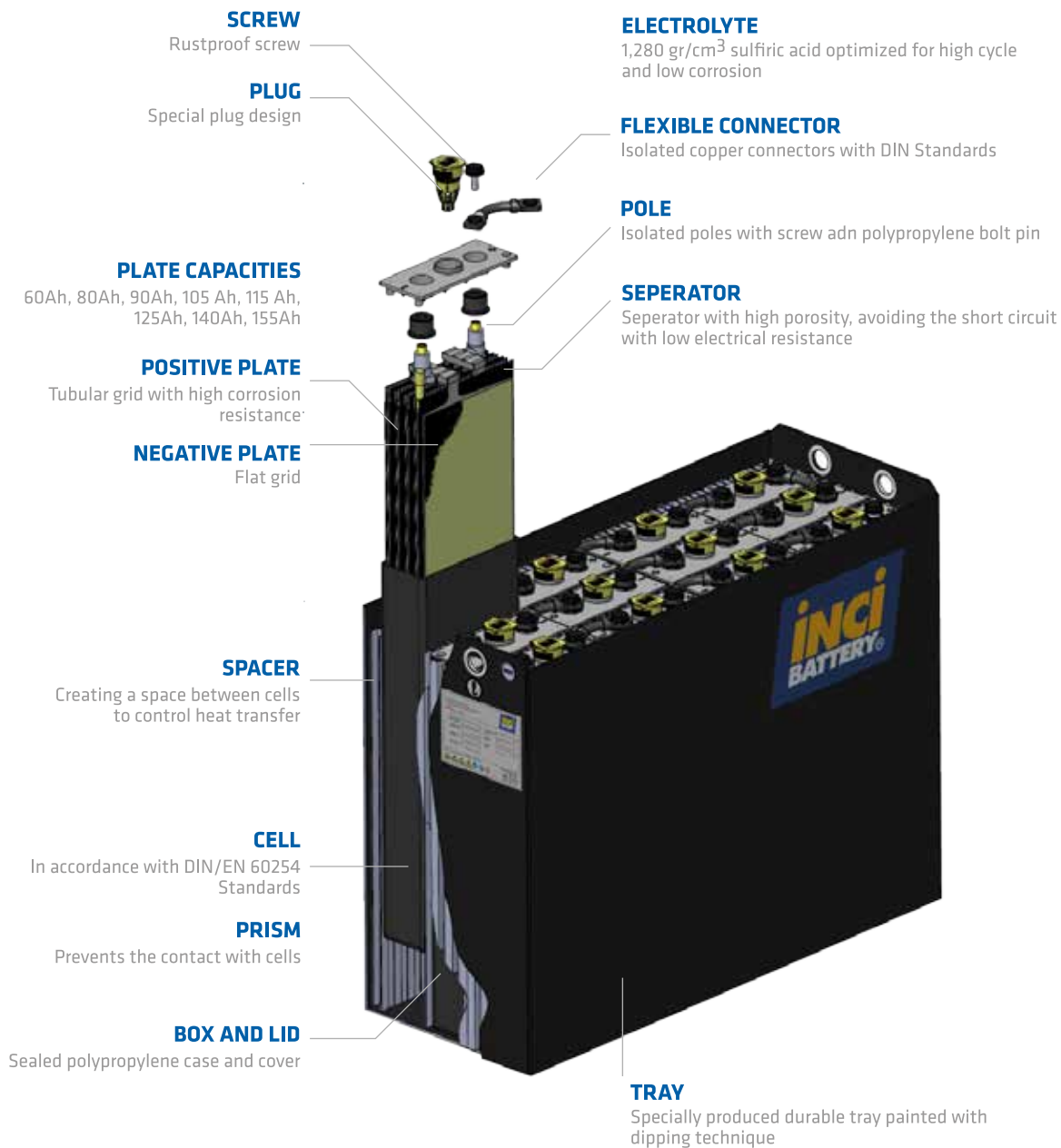
Case and Cover: Polypropylene high endurance against heat and shocks

Connectors: Totally isolated copper cables in DIN norms

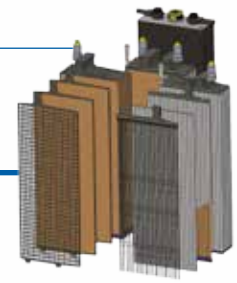
Cell: In accordance with DIN 60254 Standards



INCI BATTERY

TRACTION BATTERIES



INCİ BATTERY TRACTION BATTERIES



1	PRODUCT FEATURE	PRODUCT BENEFITS
<p>Positive Plate</p> 	<p>→ All positive plates are produced with “Specially Designed Gauntlet and Bottom Plastic”</p>	<p>Longer life with minimized active material loss. High protection against short circuits.</p>
<p>2</p> <p>Negative Plate</p> 	<p>→ Special flat plate and material formulation</p>	<p>Longer life</p>
<p>3</p> <p>Seperators</p> 	<p>→ Separators with high conductivity, minimum internal resistance, mechanically and chemically resistant</p>	<p>High protection against short circuits.</p>
<p>4</p> <p>Pole</p> 	<p>→ All cells are produced with “Specially Designed Isolated Poles”</p>	<p>While performing high conductivity, provide high protection against short circuits with preventing the contact of positive and negative plates</p>
<p>5</p> <p>Plugs</p> <p>Filtered and float type plugs</p>	<p>→ A</p> <p>FILTERED PLUGS</p> <p>Protects the cell from dust with filter system. With special top cover, density and heat controls can be done. Enable the Hydrogen and Oxygen degassing safely while charging.</p> 	<p>B</p> <p>FLOAT PLUGS</p> <p>Compatible with aquamatic system. Aquamatic system stabilizes the electrolyte density level and reduces the service requirements with less labour cost.</p> 

AQUAMATIC SYSTEM

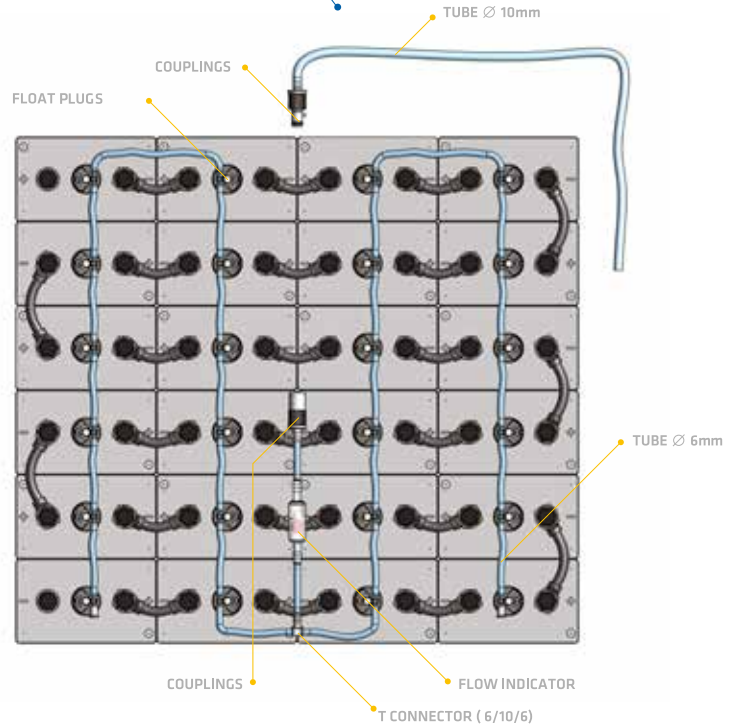
Aquamatic (Top Up) System is a unique battery watering system used for traction batteries. It replaces manual labour by an automated filling process. It ensures correct water level in batteries, thus avoiding over-filling & spillage or under filling of batteries. Fast filling enhances and allows direct water supply to battery. Also since there is direct water supply to cell vent, prevents contamination.

ADVANTAGES

- + Radically reduced filling time
Reduction in labour costs and time consumption
- + Proper maintenance
Longer life
- + Eliminating the danger of over-filling and acid splash
Prevents the risk of personal injury and corrosion of machine body
- + Minimized water loss
Water saving



Sample drawing (48 V)



AIR MIX SYSTEM

Airmix enables air flow inside the cells that allows circulation of electrolyte thus results a homogeneous mixture in the cell. Also, airmix cools down the cells during charge, which helps to decrease the charging period.



ADVANTAGES

- + Energy saving up to 20%
Less electricity consumption during charging
- + Faster charge up to 30%
Less battery change
- + Charging with ~10°C less heat
Longer life



INCI BATTERY CELL TYPES



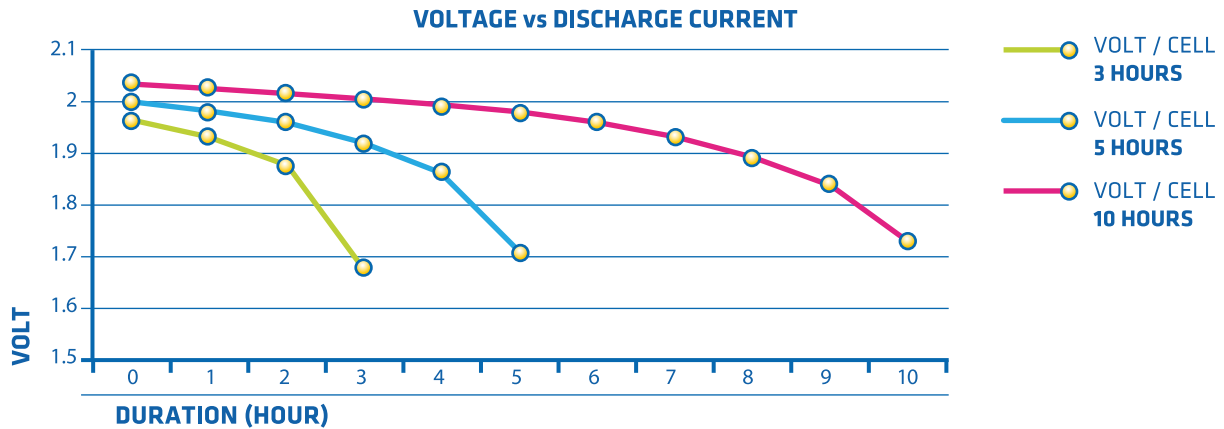
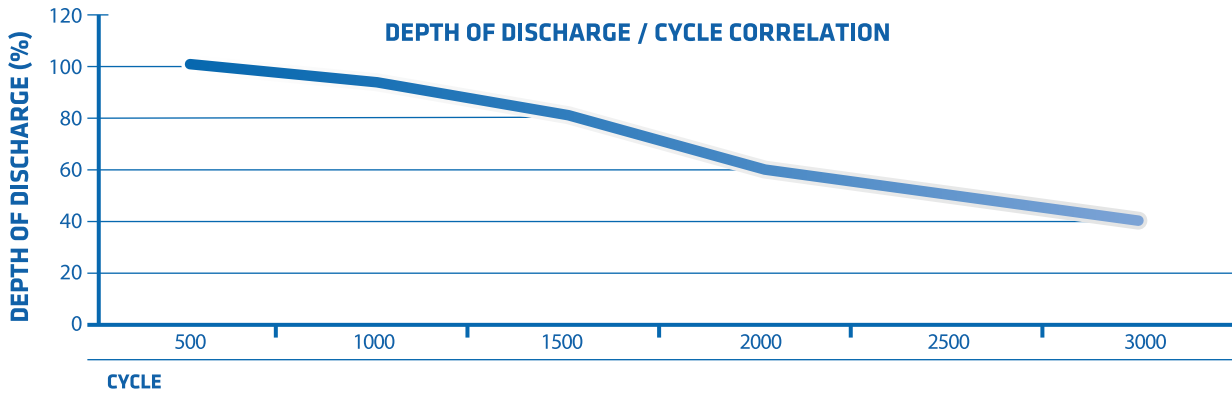
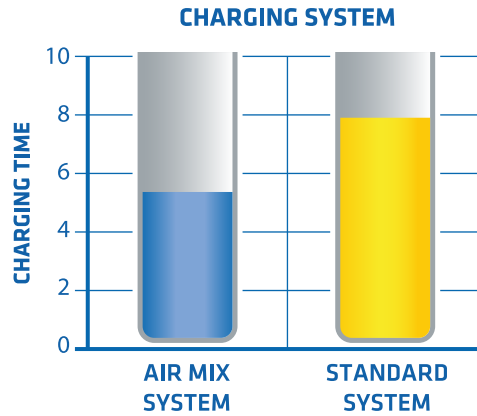
Cell Type	Plate Type	Cell Size				Wet Cell Weight kg
		Length (L) mm	Width (W) mm	Height (mm)		
				H1	H	
2 PzS 120 3 PzS 180 4 PzS 240 5 PzS 300 6 PzS 360 7 PzS 420 8 PzS 480 9 PzS 540 10 PzS 600	PzS 60Ah	47 65 83 101 119 137 155 174 192	198	342	370	8,2 11,7 15,0 18,6 22,0 25,0 29,0 32,4 35,9
2 PzS 160 3 PzS 240 4 PzS 320 5 PzS 400 6 PzS 480 7 PzS 560 8 PzS 640 9 PzS 720 10 PzS 800	PzS 80Ah	47 65 83 101 119 137 155 174 192	198	402	430	9,7 13,8 18,0 22,1 26,2 30,7 34,5 38,6 42,6
2 PzS 180 3 PzS 270 4 PzS 360 5 PzS 450 6 PzS 540 7 PzS 630 8 PzS 720 9 PzS 810 10 PzS 900	PzS 90Ah	47 65 83 101 119 137 155 174 192	198	477	505	11,4 16,4 21,5 26,4 31,4 36,4 41,4 46,4 51,4
2 PzS 210 3 PzS 315 4 PzS 420 5 PzS 525 6 PzS 630 7 PzS 735 8 PzS 840 9 PzS 945 10 PzS 1050	PzS 105Ah	47 65 83 101 119 137 155 174 192	198	527	555	13,1 18,7 24,1 29,9 35,4 41,0 46,5 52,1 57,4

Cell Type	Plate Type	Cell Size				Wet Cell Weight kg
		Length (L) mm	Width (W) mm	Height (mm)		
				H1	H	
2 PzS 230 3 PzS 345 4 PzS 460 5 PzS 575 6 PzS 690 7 PzS 805 8 PzS 920 9 PzS 1035 10 PzS 1150	PzS 115Ah	47 65 83 101 119 137 155 174 192	198	547	575	13,8 19,8 25,8 31,7 38,3 43,9 49,7 55,6 61,6
2 PzS 250 3 PzS 375 4 PzS 500 5 PzS 625 6 PzS 750 7 PzS 875 8 PzS 1000 9 PzS 1125 10 PzS 1250	PzS 125Ah	47 65 83 101 119 137 155 174 192	198	567	595	14,6 20,7 26,7 33,1 39,4 45,4 51,9 58,1 64,5
2 PzS 280 3 PzS 420 4 PzS 560 5 PzS 700 6 PzS 840 7 PzS 980 8 PzS 1120 9 PzS 1260 10 PzS 1400	PzS 140Ah	47 65 83 101 119 137 155 174 192	198	687	715	16,9 23,9 30,9 38,3 44,9 52,7 60,0 67,2 74,4
2 PzS 310 3 PzS 465 4 PzS 620 5 PzS 775 6 PzS 930 7 PzS 1085 8 PzS 1240 9 PzS 1395 10 PzS 1550	PzS 155Ah	47 65 83 101 119 137 155 174 192	198	722	750	18,1 25,6 33,2 40,9 48,5 56,2 63,8 71,5 79,2

INCI BATTERY / Traction Battery Cell DIN/EN standardized cells are placed in specially designed trays for the custom needs of customers.

INCI BATTERY

TECHNICAL SPECIFICATIONS





İNCİ GS YUASA

İnci GS Yuasa Akü San. ve Tic. A.Ş.
Organize San. Bölğ. 4. Kısım
Cevdet İnci Cad. No:11 45030
Manisa / Turkey

Phone : +90 (236) 233 25 10
Fax : +90 (236) 233 25 13
www.incigsyuasa.com
info@incigsyuasa.com

