



**FIRST
NATIONAL
BATTERY™**

THROUGH CARING WE LEAD

Railway Batteries



TÜVRheinland®
CERT
ISO 14001

ISO 14001: 2004

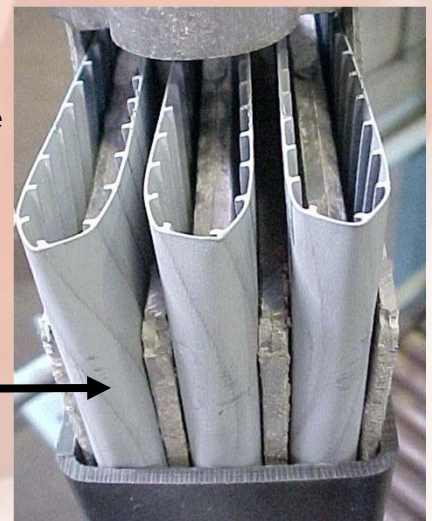
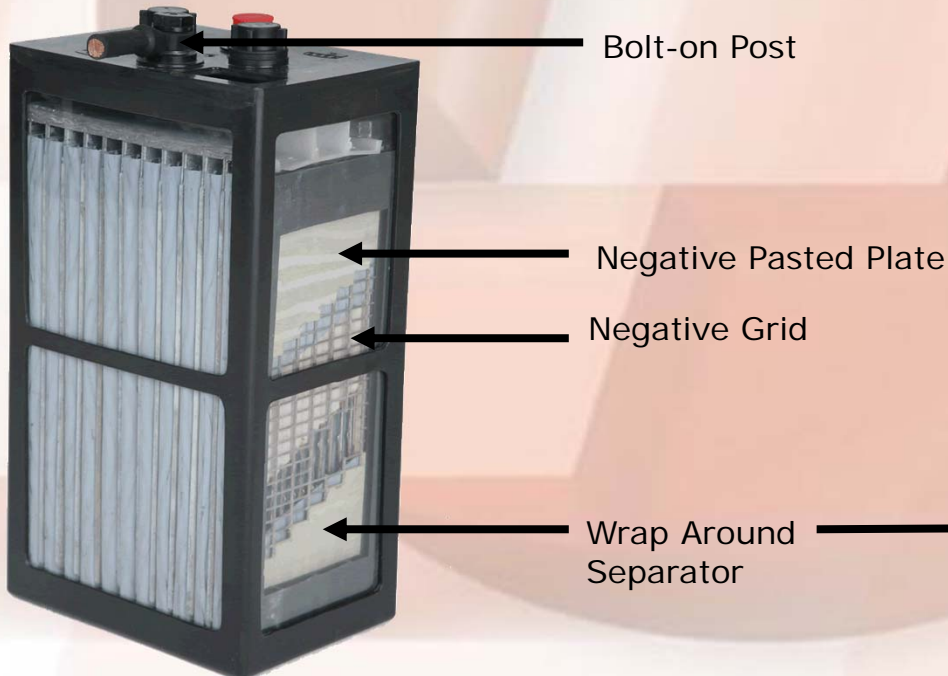
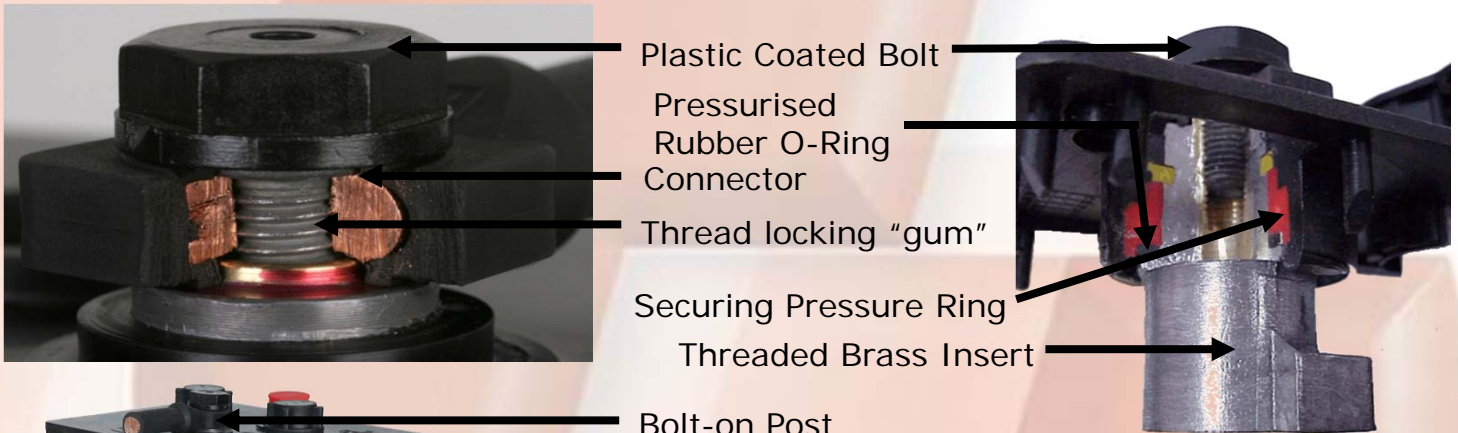
SANS IEC 60254-1,2: 1997

Battery Specifications

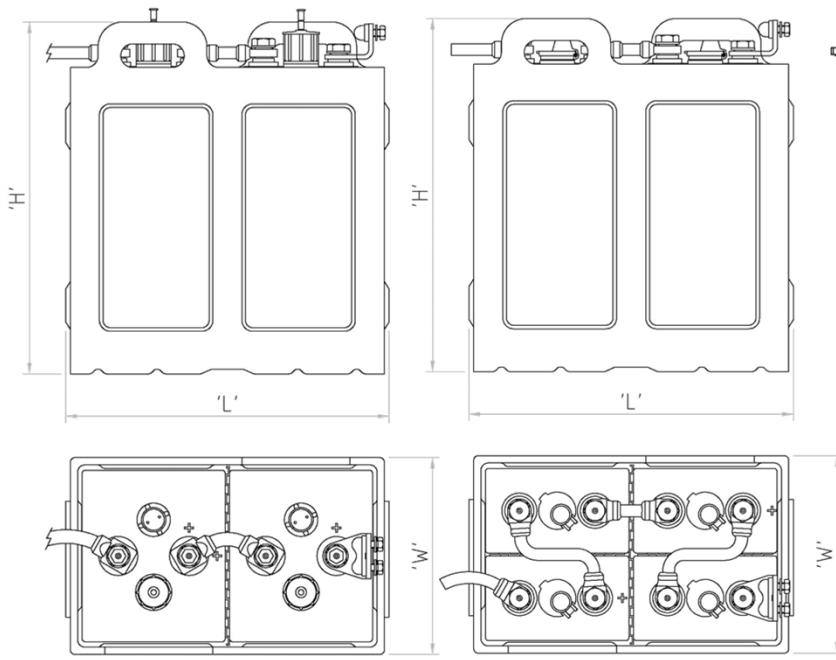
Type	Voltage	Starting Current (A) *	Capacity @ 30°C (Ah)					Wet Wt. (kg) ± 5%	External dimensions of Container (mm)			Overall Height of Cells (mm)
			10 hour	8 hour	5 hour	3 hour	1 hour		Length (mm) "L"	Width (mm) "W"	Height (mm) "H"	
Diesel Starting Batteries												
4MIL15DS	8	760	-	395	375	360	315	115	715	180	420	470
4MIL25DS	8	1300	-	680	650	625	550	185	715	280	425	470
4 DS 280	8	590	-	295	280	265	235	90	700	172	393	456
4 DS 390	8	750	-	380	360	345	305	110	715	180	346	410
Train Lighting Batteries												
4 BIMF 9TL	8	-	170	165	160	150	135	55	355	220	340	390
2 BIMF23TL	4	-	475	460	440	420	370	64	355	220	340	390

* -18°C, 3 minutes to an end voltage of 1.0V/cell

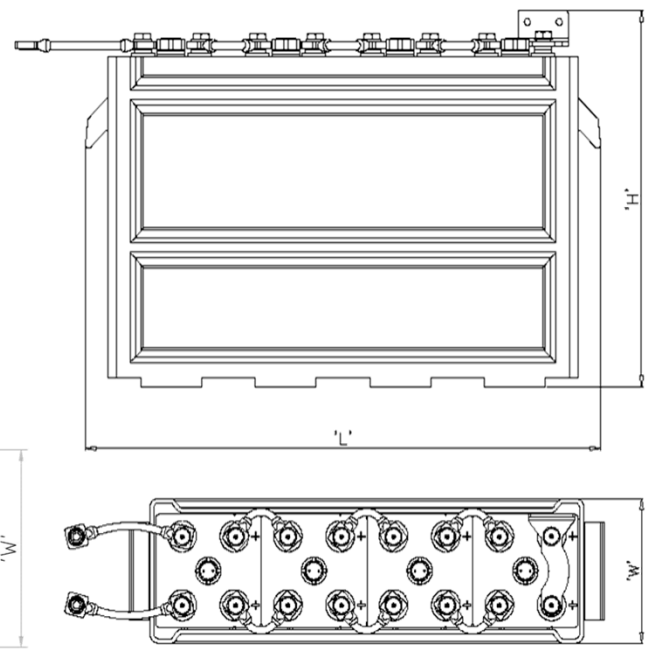
PerfectSeal® Patented PerfectSeal® Bolt-On Post



Train Lighting Batteries



Diesel Starting Batteries



Individual cells in rugged casing to improve shock resistance and to facilitate easy cell change out if required.

Positive plate is of tubular construction using low antimony alloys thus reducing topping up frequency.

Negative plate is of a highly porous paste on an alloy grid. This compliments the positive plate construction providing a balanced performance and superior life.

All positive plates are automatically sleeved (the separator is wrapped around the plate). Sleeves replace individual separators with the following benefits:

- No missing separators.
- Ensures alignment of plates and separators.
- Eliminates the possibility of shorts circuits and mousing.
- Extended life.

The mud trap prevents possible short circuits between plates due to active material shedding during the life of the cell.

The lid is heat sealed to the container ensuring a homogenous bond which is vital to mechanical strength and safety.

Connectors:

- Made of thermoplastic rubber.
- Acid, abrasion and fatigue resistant.
- Access for easy voltage checking.
- More flexible than PVC cable.
- Exceptional moulding bond eliminates contamination.
- Built in "o" rings.
- Easy and simple to connect.



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Established in 1931, First National Battery is a leading manufacturer of lead acid batteries in South Africa.

The company produces more than 2 200 000 batteries annually to provide electrical power for passenger cars, trucks, tractors, forklift trucks, boats, railway locomotives and coaches, underground locomotives and miners' cap lamps, power stations, switchyards, farm lighting, solar systems, computers, telecommunications equipment and a host of other uses.

First National Battery acknowledges that superior technology, consistent product quality and dedicated customer service are minimum requirements to enable the company to maintain its position as an industry leader.

The company's values are represented by its motto: **Through Caring We Lead**

Proof of these values is to be found in the many products and service quality awards and certificates presented to First National Battery over many years of service to battery users.

4 DEDICATED MANUFACTURING SITES:

Buffalo View Road, East London

22 800m² Production Area
ISO 9001: 2008, ISO 14001: 2004
and TS 16949 2009
Industrial Battery Manufacturing:
Forktruck Batteries, Standby Batteries,
Mining Batteries

Settlers Way, East London

11 700m² Production Area
ISO 14001: 2004 and TS 16949 2009
Automotive Battery Manufacturing:
10 000 Batteries per Day
also
Technical Centre

Fort Jackson

7 800m² Production Area
ISO 14001: 2004 and TS 16949 2009
Plastic Injection Moulding:
50 Ton - 860 Ton Injection Moulding
Machines
18 Million Pieces per Annum
Also Toolroom

Liverpool Road, Benoni

ISO 9001: 2008, ISO 14001: 2004 and
TS 16949 2009
Lead Smelter:
17 000 Tons Recycled Lead per Annum
Also Warehousing & Distribution
Formation & Finishing Line
Marketing & Finance Divisions

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