

Industrial & Traction Battery Accessories



Intercell Connection Systems | Bolted Cell Pillars | Battery Cable Assemblies

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OPzS/OPzV Pillar

Product Specification

Material:- Lead Alloy of 4.5% antimony for OPzS and 2T alloy for OPzV.

Sizes:- Height from 77.5mm to 177mm

Type of inserts:- Brass and Copper

Plating:- Inserts are 100% pure lead plated

Typical applications of OPzV

Telecommunications:-

- Mobile phone stations,
- BTS-stations,
- Off-grid/on-grid solutions

Traffic systems:-

- Signalling,
- Lighting,
- Security lighting

OPzS/OPzV

OPzS is used to refer to a flooded type of tubular-plate, lead acid, deep cycle batteries. These batteries, generally have a cell voltage of 2 volts and are connected in series to produce higher voltages.

These types of batteries are generally vented and are used in stationary applications like; solar, wind and backup energy storage. They contain a liquid electrolyte which is generally composed of diluted sulfuric acid.

OPzS stands for : O = Ortsfest (stationary) Pz = PanZerplatte (tubular plate) S = Flüssig (flooded)

OPzS batteries are often time referred to as stationary batteries. A variant of these types of batteries that are valve regulated and have gel electrolyte are called OPzV. These are a maintenance free variant of OPzS.

Your benefits with OPzV

Maintenance-free regarding water refilling - due to innovative Gel-technology

Very high expected service life - due to optimized lead-calcium alloy

Very high cycle stability - due to tubular plate design

Maximum compatibility - Dimensions according to DIN 40742

Optimal space utilization - due to possibility of horizontal arrangement.

Higher short-circuit safety even during the installation - based on system connectors



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Traction Cell Pillars

Product Specification

Material:- Lead Alloy of 4.0%-4.5% antimony for Traction (motive power) post and Varying anti-antimony from 4.5% to 9% for Stationary battery terminal post.

Varying Tin alloy from 0.6% to 2.0% for Gel battery Terminal post.

Models:- As per

DIN (German Standard)
BS (British Standard)
BCI (American Standard)

Sizes:- Height from 50.5mm to 93mm for Motive power and Gel battery terminal post.

90mm to 188mm for stationary battery post

Type of inserts:- Brass and Copper

Bolted Cell Pillars (Motive Power lead terminal post)

We can supply a range of pillars from large to small in a variety of different lead antimony alloys from 9% antimony to 4%. The pillars are all cast with a very high quality / high strength brass insert. These inserts can be cast in the plain brass finish or pure lead, pure tin and lead/tin alloy electroplated finish depending on customer specification. As well as the standard dimensional checks, pillars supplied are rigorously tested for porosity, torque test, for the bonding of the insert and for surface finish.



Motive Power Lead Post



Stationary Battery Lead Post

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Copper Rigid Connectors

Product Specification

Material:- ETP Copper

Sizes:- As per customers specification

Plating:- 100% pure lead and Tin plated. Plating thickness up to 100 micron in lead up to 10 micron in Tin

Special Plating:- 93/7 Lead tin plating

MSS can produce highly complex and accurate Sleeved, plated and bare copper rigid connector.



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Flexible Cable Connectors

Product Specification

Material:- High quality, acid proof Super Flex 'Forprene' sheathed copper cable

Models:- Suitable for DIN, BS and BCI traction batteries

Sizes:- Available in 25, 35, 50, 70 and 95 mm² diameter

Centre Distance:- from 75mm to 3000mm

Intercell Connection Systems

TRACTION BATTERIES

There are two main types of Intercell connection systems used in traction batteries:

- Cells with welded lead connections
- Cells with bolted connections

We can supply connectors from solid lead strip, from copper strip with cast lead ends or from insulated copper cable with cast lead ends. These connectors are then designed to be welded to the lead pillar in the cell. For bolted cells we can supply the connection system with a fully encapsulated (with acid resistant rubber compounds) copper cable connector and the plastic headed terminal bolts to secure the connector into the cell pillar. The connectors come in 5 standard sizes of cable 25 mm², 35 Smm², 50 mm², 70 mm², and 95 .mm².



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Perfect Cable Connectors

Product Specification

Models:- Suitable for DIN & BS traction batteries

Sizes:- Available in 25, 35, 50, 70 and 95 SQ.mm diameter

Centre Distance:- from 75mm to 3000mm



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Take-Off Leads

Product Specification

Material:- High quality, TPE Super Flex 'Forprene' sheathed copper cable.

Models:- Suitable for DIN, BS and BCI traction batteries.

Sizes:- Available in 25, 35, 50, 70 and 95 mm² diameter.

Centre Distance:- from 75mm to 3000mm.



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Plastic Head Bolts

Product Specification

Material:- Mild Steel bolt with a special high strength plastic head designed to withstand a minimum torque value of 50Nm

Sizes:-

- M10x22mm,
- M10x18mm,
- M8x18mm,
- M8x22mm

Design:- Bolts are supplied in two design, with test point and fully covered in grey and black colour

Plating:- Tri-valent Zinc plated. (Environment friendly hence REACH Compliant)

Thread Lock:- Precote 30 (Yellow colour) used for bolts based on battery application.



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Machined Parts—Brass Inserts

Product Specification

Material:- Copper and Brass

Sizes:- As per customers specification

Design:- Hexagonal and round shape design

Plating:- 100% pure lead and Tin plated

Bare Brass Insert



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Injection Moulded Plastic Components

Product Specification

Models:- Plastic lids, Bottom bars, Sealing washers and support plates

Sizes:- As per customers specification

Capacity:- Can produce highly complex and accurate injection moulded components.





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Thank you for visiting the MSS Industrial Battery Accessory page and hope you found the product you were looking for.

Please feel free to email us with any bespoke products or drawings of your own products for a tailored quotation.

Kind regards,

The MSS Team

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