

# Indoor & Outdoor Lighting Specialist

## Busbar Trunking



Electric Solutions

A Division of Faisal Jassim Group

## About Us

Established in 2006, **Onsite** has been delivering to its customers high quality and cost effective lighting solutions. Backed by international lighting brands, **Onsite** is also supported by a highly experienced team of architects, engineers and skilled workers.



**Our vision is to become a market leader in the lighting industry, contributing to our clients and employee's success.**

A DIVISION OF



**Faisal Jassim Group**  
We bring life to your building

# Onsite Scope of Services and Supplies

## Indoor Architectural and Functional Lighting

With our large range of products and solutions, we can cover all areas of indoor architectural and functional lighting. Our Engineers can offer their professional advice to consultants, architects, contractors and clients and propose lighting solutions combining aesthetics, functionality and energy saving in any environment.



## Outdoor Landscape and Facade Lighting

We offer unique solutions for outdoor beautification of buildings and spaces. With our partners, we can cater to any project needs with standard and /or customized solutions.



## Street Lighting

Onsite offers complete and turnkey street lighting solutions comprising cables, poles, street lighting fixtures, junction boxes and control systems. We also design and supply solar lighting systems for road and urban spaces.



## Sport and Area Lighting

From design stage to delivery ,testing and commissioning, Onsite offers unique sport and large area lighting solutions along with its international partners. In this respect, we supply high masts, poles, floodlights and area lighting fixtures using latest technologies.





Established in 2011, Busbar division is an integral part of Faisal Jassim Group. PowerBar Gulf, is a part of the E & I Engineering Group located in Ireland, designs and manufactures a range of busbar trunking products that provide an alternative to the use of electrical cabling for the distribution of electric power within commercial and high-rise properties. Powerbar's busbar trunking systems can manage the power supply in utility buildings and work particularly well in tower block constructions.

## Why Choose Us



- Thermal Imaging Services which includes initial site survey to conduct thermal image development.
- Full onsite Installation which includes supply of all secondary fixing, moving busbar into position and erecting into the final onsite location, full visual inspection before joints are tightened, full megger and ductor testing on each run once complete.
- Fully approved product for the busbar trunking market in the UAE:
  - ADDC approved
  - Fully type tested to IEC61439-1 and 6
  - Class B 130 degree celsius epoxy resin insulation
  - Class F 155 degree celsius epoxy resin insulation
  - Copper purity 99.9% IACS
  - Lightweight aluminium case
  - Low impedance sandwich construction
  - IP55 and IP65 ASTA certified



- Powerbar by E+I Engineering is a patented range of busbar trunking utilized within building and industrial applications to deliver power to electrical loads.
- Powerbar provides savings on space, installation time and monetary costs.
- The development of E+I Engineering's powerbar range complements the switchgear range to provide a complete power distribution solution. Clients can deal with us for all of their power distribution needs.
- Powerbar products are built with patented processes that

make it the most reliable form of busbar trunking in the market. The Powerbar range offers power distribution solutions from 160A up to 6600A with Ingress protection options available up to IP68.

- The Powerbar range includes High Powerbar (HPB), Medium Powerbar (MPB), Cast Resin Powerbar (CRPB) and Intelligent Medium Powerbar (iMPB).

- **The Powerbar range is fully ASTA certified and manufactured in accordance with IEC, UL, DEWA and ADDC regulations.**

**Powerbar** has multiple six bar conductor configuration to suit the project requirements:

- TP & N
- TP & N complete with 100% Earth (Case)
- TP & N complete with 100% clean earth
- TP & N (200% Neutral)
- Other configurations available on request

### High Powerbar (HPB) Features

High Powerbar is 1000V totally encased, non-ventilated and low impedance sandwich construction. It can be supplied with either epoxy resin coated copper or aluminium conductors. HPB offers a choice of Ingress Protection from IP55 to IP67 and is available from 800A up to 6600A.

#### Key features:

- Joint pack construction with double headed shear nuts for quick installation
- 50 – 60Hz operation
- Up to five tap off points per 3m length
- All tap offs fitted with earth first, break last safety feature
- Type tested to 50°C ambient conditions
- Tin or silver coated finish options available
- Extruded aluminium case for good heat conductivity and light weight
- Ingress Protection ratings IP55 to IP67

### Medium Powerbar (MPB)

High Powerbar is 690V totally encased, non-ventilated and low MPB is a non-ventilated, air insulated construction, available from 160A up to 800A and engineered with IP54 as standard. It is supplied with either epoxy resin coated copper or aluminium conductors. The extruded aluminium housing delivers a durable yet lightweight product. Additionally, the housing can be used as an integral earth to enhance the safety of the installation.

### Intelligent Medium Powerbar (iMPB)

iMPB is constructed from high density 99.99% conductivity copper. The conductors are insulated with a custom thermoplastic material with outstanding heat transfer characteristics making it ideal for **data centre applications**. E+I Engineering have completed iMPB installations in data centres across the globe where flexibility and security of electrical distribution is paramount.

iMPB has been engineered with the safety of the installer and user in mind. The aluminium housing is a light and durable structure that also acts as a ground path.

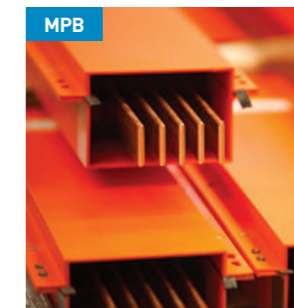
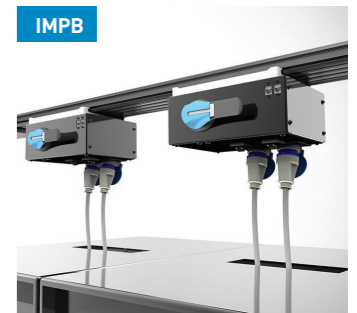
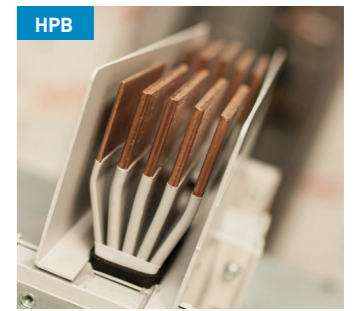
Tap off units are fitted to the busway using E+I Engineering's unique earth first, break last safety feature. Each tap off unit is secured to the busway using a high tensile strength lockable

### Cast Resin Powerbar (CRPB)

The conductor is fully enclosed in a fire retardant, self extinguishing and homogenous polymer concrete. The cast resin housing is resistant to fire, water, mechanical loads, chemicals and extreme temperatures (-40°C to +60°C).

#### Key features:

- Multiple configurations to suit project requirements including neutral, double neutral and earth
- Ingress Protection rating IP68
- Resistant to a large number of acids
- Fire resistant to IEC 60331-1/ ISO 834
- Explosive atmosphere (ATEX) approved to IEC 60079



#### Key features:

- Modular structure and integration of end feeds allows for further expansion where necessary
- Type tested for heat rise and short circuit requirements
- Tap-off units can be installed every 500mm along the MPB
- All tap-offs fitted with both a mechanical and electrical interlock
- Electrical joints made using four bolt arrangement to reduce installation time and light weight
- Ingress Protection ratings IP55 to IP67

hardware which cannot be fitted incorrectly. The contacts in the tap-off can only be engaged once the unit has been correctly fitted to the busway.

#### Key features:

- Solid joint pack construction
- Up to 12ft lengths
- Advanced metering capabilities through integrated total and individual circuit monitoring
- Overrated neutral option available for systems with non-linear loads
- Can be installed flat or on its edge depending on specific project requirements





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