



Low Voltage (230V and 400V) and Reduced Low Voltage (110V) distribution equipment for permanent and temporary installations.



Distribution



Protection



Transformers



Site Lighting

# Leading developments in Distribution Equipment

Blakley Electrics have developed a unique range of standard distribution assemblies for permanent and temporary installations in a variety of indoor and outdoor applications. In addition to our stock range of Low Voltage (230V and 400V) and Reduced Low Voltage (110V) distribution equipment, we also design and manufacture to client and application specific requirements.

Enclosures can be supplied equipped or unequipped, high IP rated and fabricated from the material suited for the environment. For high risk and arduous environments, temporary mains distribution equipment can be supplied within robust crash frames. Secure access panels and lockable doors reduce risk of vandalism and unauthorised interference.

Our first manufactured products were 110 volt Distribution assemblies targeted at the construction sector and, in the 1960s, we were the first UK company to offer off the shelf 110 volt distribution equipment. Since then, our range of distribution products has developed beyond all recognition, and is a mainstay in permanent power distribution requirements across multiple industry sectors. The construction sector remains a key market and Blakley Electrics have been involved with most major UK construction projects including Sizewell "B", the Channel Tunnel, Jubilee Line Extension, Canary Wharf, Channel Tunnel Rail Link, Terminal 5, the Olympic Park, Crossrail.

We have been the major supplier of electrical distribution equipment to support the UK armed forces, operating in the most hostile of environments and are major suppliers of fixed distribution equipment to the rail sector and supply approved products to both London Underground and Network Rail. We supply fixed equipment to Royal Naval Dockyards; to the nuclear and power generation sectors; to the food processing sector and many other industries.

This brochure provides an overview of our comprehensive range of Distribution products for permanent and temporary installations, our full range can be found on our website at [www.blakley.co.uk](http://www.blakley.co.uk). If you can't find what you are looking for, please contact our Customer Service Centre who will be pleased to help. If you require a non-standard product or wish to discuss a specific application, our Project Sales Team is on hand to discuss your requirements. They can also be contacted via our Customer Service Centre.



## About Blakley Electrics

Established in 1957, Blakley Electrics Ltd are a market leader in the design and manufacture of high performance power and lighting products.

Harnessing over 60 years of experience in fabrication and electrical assembly, most Blakley products are designed and manufactured in-house, within our Quality Management System, which is accredited to British Standard ISO9001:2015.

Our manufacturing expertise is underpinned by a combination of investment in leading production technology, modern facilities and machinery, and a skilled workforce at our Engineering and Manufacturing Centre in Essex and our assembly plant in Kent.

At our Sales and Customer Support offices in Kent and Leeds, our knowledgeable teams are always on hand to provide advice and guidance.

Product demonstrations, project discussions and customer training are also available at our dedicated Customer Demonstration Centre in Kent.

### What we do

**Permanent Distribution**

**Temporary Distribution**

**Transformers**

**Site Lighting**

**Protection**

**IP55 MCB Distribution Boards**



A range of heavy duty MCB distribution boards manufactured in accordance with BS EN 61439-3, single and three-phase, 4 way to 24 way, with or without additional DIN rail for control devices. Distribution boards incorporate Schneider switchgear and Acti 9 pan assemblies.

**IP66 MCB Distribution Boards**



A range of IP66 rated heavy duty distribution boards for permanent installation in extremely wet or very dusty locations. Designed to meet the requirements of BS EN 61439-3. 4 way to 18 way, with or without additional DIN rail for control devices.

**IP55 MCB Distribution Boards, 110V**



A range of heavy duty, MCB distribution boards equipped with double-pole MCBs or RCBOs, designed for 110V Reduced Low Voltage Supplies.

**IP55 MCB Distribution Boards  
LUL Approved**



A range of IP55 Distribution Boards with incomers rated up to 250A, type tested to IP55, which meet the requirements of BS EN 61439-3 and are approved by London Underground (LUL) for installation on LUL premises, including defined Section 12 locations.

**Nuclear Sector Products  
Fuse Distribution Boards**



A range of temporary and permanent distribution assemblies developed for the Nuclear sector.

Single-phase and neutral, double-pole and three phase and neutral fuse boards incorporating Red Spot BS88 fuse banks with carriers rated at 20A, 32A, 63A and 100A.



Power Cluster Combination Socket Assemblies are the ideal solution when multiple industrial sockets are required in close proximity. They are fully wired and tested factory built assemblies requiring a single mains incoming connection, which simplifies installation and minimises on-site activity.

Power Clusters receive a single incoming supply cable and incorporate either an incoming switch or an incoming RCCB rated up to 100A.

## Power Clusters 230V/400V



IP44 and IP55 Power Clusters fitted with 230V or 400V sockets to BS EN 60309-2, which are rated at 16A, 32A and 63A with MCB and RCD protection, as required.

## Power Cluster Plus



Power Clusters incorporating integral transformers to feed 110V, 42V or 24V sockets.

## Power Clusters for Military Hangers



Hangar Distribution Assemblies incorporate PEMS protected outlets as well as 28V DC and 200V 400Hz supplies.

## Current Transformers for CT Chambers



Measuring Current Transformers to BS EN 61869-1 and 2, for Standard CT Chambers rated from 400A to 1600A.

## Ground Mounted Assemblies



Ground Mounted Assemblies are designed to provide power in outdoor markets, car parks, precincts, airfields and aircraft hangars.

Comprising of standard duty and heavy duty enclosures, fitted with a range of lid arrangements and socket outlet options. Non-standard assemblies can be made to order.

## Automatic Transfer Assemblies, 60A to 400A



Standard Automatic Transfer switch assemblies are available in ratings from 60A to 400A, three-phase and neutral. Changeover is via electrically and mechanically interlocked contactors and control is via a Deep Sea Controller, details of which are available upon request.

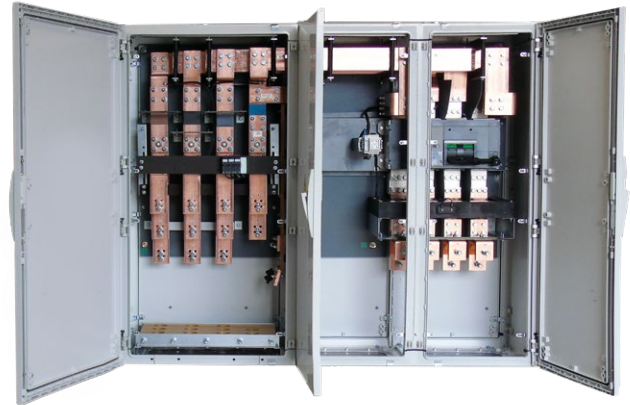
CT Chambers are designed to house Current Transformers used to meter LV electrical supplies rated from 200A to 2000A. Versions are available that are combined with a 4P MCCB, which also provide a main point of isolation for an installation. CT chambers can be utilised to meter the Distribution Network Operator's supply (DNO) or they can be part of the Building Network Operator's installation.

### Standard CT Chambers



Standard all-insulated CT Chambers rated at 200/400A, 630/800A and 1250/1600A.

### CT Chambers to SSE Requirements



Insulated CT Chambers to SSE Requirements in ratings from 800A to 2000A.

### Pillars



Available in GRP or Stainless Steel supplied as empty enclosures with a wooden backboard or fully equipped with switchgear and controlgear.

### Standard Surface Sockets, 110V with and without RCD Protection



A range of 110V all-insulated socket outlets to BS EN 60309-2, rated at 16A and 32A, IP44 or IP66/67, with and without RCD protection.

### Socket Assemblies, LUL



LV9 and SMB series 110V and 230V Platform Sockets, rated at 16A or 32A, surface or flush mounting. LV9 and LV9R models have been approved by London Underground for installation on their premises, Approved Product Register (APR) No. 1935 refers.

### Socket Assemblies, 16A & 32A, Singles & Twins



Single and twin socket assemblies, surface mounting, rated at 16A or 32A, 110V or 230V, available with a range of loop-in / loop-out terminals, BNFL approved.

A range of Standard and Custom Built mains voltage site distribution assemblies, rated from 100A to 3200A.

## B Series Mains Distribution Assemblies, up to 200A



Mains Voltage Site MDAs, up to 200A rating, complete with a range of incoming and outgoing switchgear.

## B Series Mains Distribution Assemblies, 400A to 1600A



## Mains Distribution Assemblies Fitted with Socket-Outlets



Mains Voltage MDAs fitted with incomers up to 250A rating fitted with a variety of 230V and 400V sockets individually protected by MCB and RCCB.

Mains Voltage Site Distribution Assemblies, 400A to 1600A rating, complete with a range of incoming and outgoing switchgear. Assemblies feature MCCBs with electronic trips, which have a high level of adjustability and can be "set" on site. MDAs are also available with Test Sockets to facilitate safer on site testing.

## Custom Range of Crash Frame Mains Distribution Assemblies



## E Series Mains Distribution Assemblies, up to 125A



Mains Voltage Site MDAs up to 125A rating, complete with a range of incoming switchgear.

Distribution Assemblies and AMF panels for Events and other arduous applications, mounted in heavy duty Crash Frames with fork lift pockets and type tested lifting points.



## Custom Range of MDAs



Mains voltage Site Distribution Assemblies, 100A to 3200A, configured to customer requirements.

## Custom Range of Form 4 MDAs



Mains voltage Site Distribution Assemblies with full segregation between all functional units and bus bars, rated up to 3200A. Form 4 MDAs are usually project specific and made to order.

## Dockside Service Units



DSUs are high IP rating, high current distribution assemblies designed for installation on docksides without additional protection. DSUs are made to order.

**Standard Enclosed Isolators**

Stock Enclosed Isolators, outdoor, TP&N and 4P, rated up to 630A, designed to supply tower cranes and other items of heavy plant. All models incorporate a 32A 230V MCB / RCD to supply local floodlights, etc.

**Site Intake Assemblies**

A range of free-standing enclosures designed to house the DNO service head, metering equipment and consumer's main switch / RCD.

**ESD Assemblies for Twin Cage Hoists**

Enclosed Isolator assembly, outdoor, TP&N, rated up to 200A, fitted with two outgoing MCBs, which are intended to supply twin cage hoists. All models incorporate a 32A 230V MCB / RCD to supply local floodlights, etc.

**Auto Mains Failure Assemblies**

Standard and custom built assemblies in current ratings up to 3200A to changeover automatically from Permanent Mains to Stand-by generator when the mains supply fails. Upon restoration of the mains supply the system can automatically change back to mains feed and halt the stand-by generator.

**Combined CT Chamber and RCD**

Rated from 200A to 2000A designed to house Current Transformers used to meter LV supplies and the RCD provides fault protection for the site. Widely installed in the London Region and similar assemblies can be supplied to meet South-Eastern Region and Scottish & Southern requirements.

**High Current Sockets and Associated Equipment**

High current sockets and associated equipment, rated at 32A, 63A and 125A, to supply mobile or transportable, mains voltage, plant and equipment.



## Event Power Distribution Equipment



Distribution Assemblies and Accessories for the Event and Generator Hire sectors include:

- Distribution assemblies, 230V input
- Distribution assemblies, 400V input
- Extension leads
- Event distribution assemblies
- Rubber distribution assemblies
- Custom range of crash frames MDAs

## Military Distribution Assemblies



Temporary Distribution Assemblies for army field camps from Forward Operating Bases to 1000 man camps.

- Portable Insulated Outlet Assemblies developed for military applications, 230V, with a range of input and 13A output configurations.
- Lighting & Power Distribution System for Military Applications.
- Distribution Assemblies for Military Applications, compatible with in service FEPS and FEPDS systems.

## Custom Range of Containerised Switchboards



High current distribution assemblies housed within ISO containers, which provide a safe working environment for equipment and personnel in the harshest conditions. Containerised switchboards are made to order.

## Reflex Plug-in Assemblies



Plug-in Site Distribution Assemblies, 400V and 110V, with controlled access to all connectors. Reflex Assemblies are made to order.

**Tunnel Assemblies**

Tunnel Power and Lighting assemblies ranging from 3300V to 110V, designed for tunnel construction and fit out, in accordance with BS6164. Products include: Mains Distribution Assemblies with integral AMF changeover systems; transformers to step down from 3300V to 400V and 110V; Tunnel Distribution Assemblies to supply LV and RLV power; and 110V lighting systems with integral emergency back-up.

**PFC Assemblies**

Power Factor Correction Assemblies are designed for operation in a harsh construction environment.

**110V Distribution and Accessories**

Extension leads made from H05 VVF flexible yellow cable fitted with 16A and 32A 110V connectors to BS EN 60309-2.



Powerline linear power distribution system available in 25m, 50m and 100m lengths, rated at 16A with moulded "T" drops every 5 metres. A 16A 110V 3P coupler socket is fitted to the end of each drop.



Portable distribution assemblies designed to plug-in to 16A and 32A 110V sockets fitted to suitable transformers and generators, enabling multiple appliances to be supplied.



Stock 16A and 32A, 110V and 230V, 2P+E plugs, couplers and panel sockets to BS EN 60309-2.



PVC Arctic grade flexible cable available with Yellow, Blue or Black outer sheath, cross sections in the range 0.75mm<sup>2</sup> to 6mm<sup>2</sup> and 2, 3 or 4 cores. LSOH versions available in certain sizes.



Rubber flexible cable, 450V / 750V rated with a black outer sheath, cross sections in the range 1mm<sup>2</sup> to 4mm<sup>2</sup>, 2 core or 3 core.



Cable Reels fitted with 25 metres of 1.5mm<sup>2</sup> PVC Arctic Grade cable.



**1. Leeds**

Sales

**2. Harlow**

Manufacturing  
Engineering  
Design

**3. Crayford**

Manufacturing  
Sales

# **BLAKLEY**

E L E C T R I C S

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Experts in **high performance**  
power and lighting products