



Temporary Power Distribution



Fixed Power Installations

Your partners in temporary power distribution
Wholesaler catalogue 2021.



Your partners in temporary power distribution.

IDE can help you with every aspect of your operation's requirements, from selecting and delivering the right products for your project, to helping you plan ahead.

When it comes to meeting and managing your temporary power distribution needs, IDE can help you with every aspect of your operation's requirements, from selecting and delivering the right product for your project, to helping you plan ahead.

We offer an unrivalled service. Specialising in combined sales, rental, design and manufacturing, IDE can work in partnership with you to make the very most of your power distribution assets.

Power supply for mobile MRI and CT Scanners.

Designed to supply power to a range of mobile unit diagnostic modalities such as CT, MRI and PET scanners.

Equipment housed within a wall mounted steel enclosure or free standing galvanised steel crash frame. Incoming hardwire connection to M10 terminals with 250mm spreading distance.

250A 3P+N+E 400V IP55 Marechal outgoing socket protected by a door interlocked MCCB and adjustable earth leakage. Door interlocking handle with padlock facility. 2 No. CAT 5e IP67 data sockets and a 2 wire IP54 Telephone connection point, for use by others as required.



Mobile Medical Scanners

Specifications

- > Incomer: 3P + N + E (Hardwire) . Protection: 250A 4 Pole MCCB Adjustable Earth Leakage
- > Outgoing: 250A 400V 5 Pin IP55 Socket. Protection: N/A
- > Dimensions: H650 x W650 x D200 (mm)

Product	Description	Application
DS2Se-1	Standard DS2 (1.4003)	Indoor/outdoor
DS2Se-2	DS2 in 316 Stainless Steel	Harsh outdoor environments (e.g. coastal areas)
DS2Se-1-CF	DS2 in crash frame	Mobile (forklift)
DS2Se-1-GRP	DS2 in GRP enclosure	Secure

Enclosure

Grey (RAL7035) textured powder coated stainless steel construction (1.4003 grade). 316 option available. Separate incoming compartment with external panel key lock door and padlock hasp. Aluminium gland plate. Assembled to IP54.



Understanding your fixed power connection needs

Each connection point has its own requirements, whether it's for multiple outlets within a venue or specific connection type. Whatever the need, IDE has experience to understand and deliver.



Environmental protection

Outdoor applications need to provide protection against the elements, and also last a long time. Our products are manufactured and tested to ensure many years of reliable operation, whatever the weather.



Site survey and installation

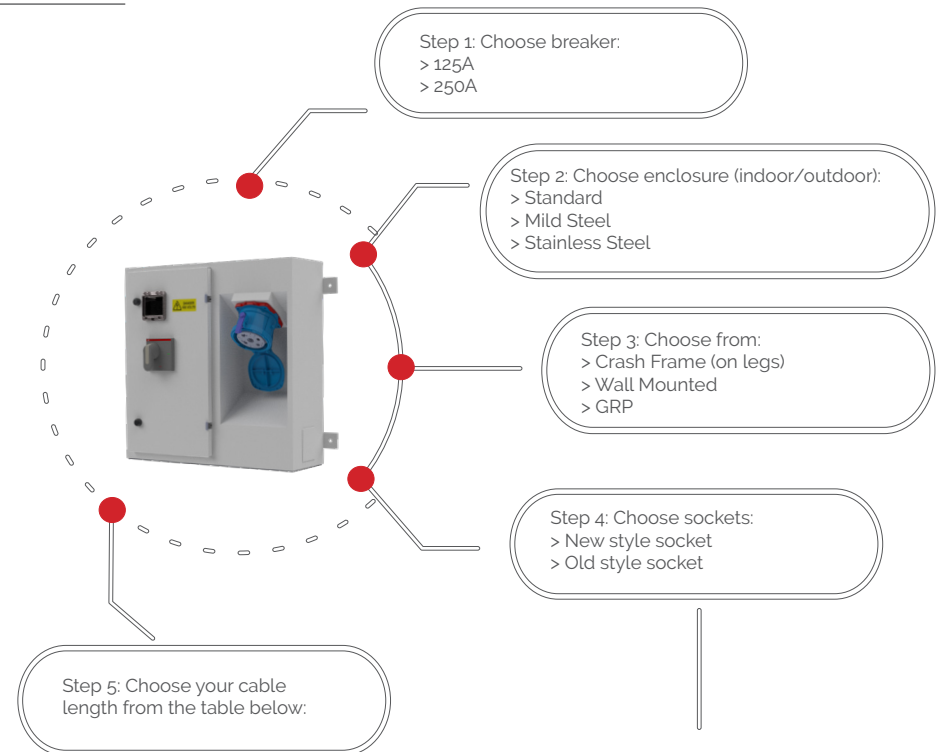
We provide site surveys to advise on positioning and power connection requirements, and can also install if required.



Long-term partnership

Requirements can change over time, and we can help update and modify our power clusters to suit. We can also provide annual checks and replacement parts.

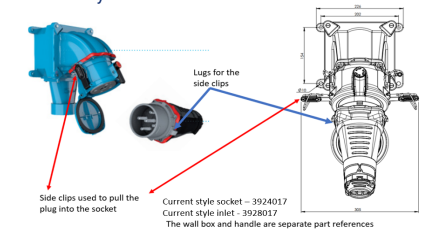
Build your DS2



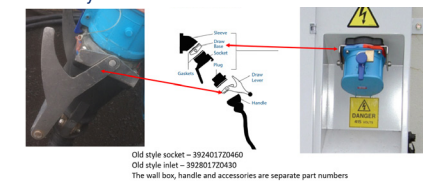
Recommended cables for the DS2. Marechal DS2 plug to Marechal DS2 socket

Product	Description	Size
CR250510-DS2	400V 5 core 70mm IP67	10m
CR250515-DS2	400V 5 core 70mm IP67	15m
CR250520-DS2	400V 5 core 70mm IP67	20m
CR250525-DS2	400V 5 core 70mm IP67	25m

New Style Socket



Old Style Socket



Generator Connection Point.

Designed to restore power to critical applications. They can be fitted inside or outside of a building, allowing a safe and quick connection of a back-up generator to your facility's electrical system when required.

Three-phase, neutral and earth Generator Connection Point. Equipment housed within a wall mounted steel enclosure.

Powerlock (Drain) connections to copper bars allow for top entry outgoing cables. 3mm aluminium top gland plates are provided for the customer. Powerlock (source) cables can be supplied at an extra cost to make connection to the Generator Connection Point.

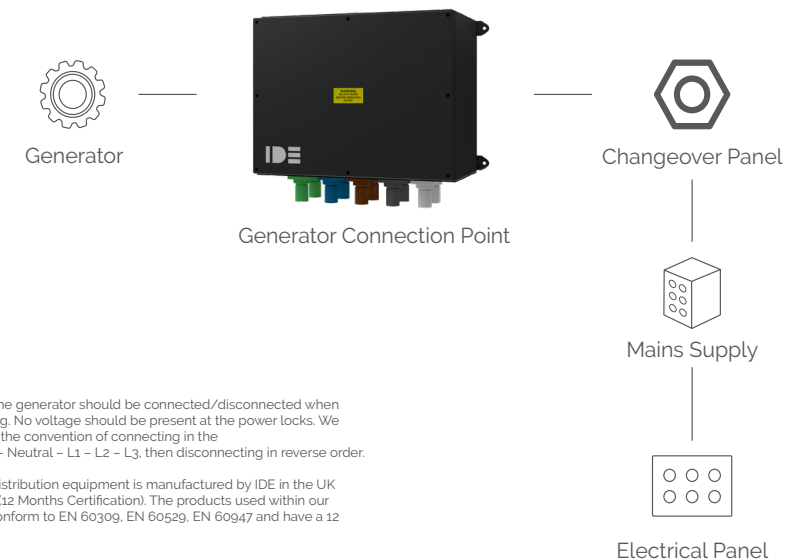
Enclosure

Dark Grey (RAL7021) textured powder coated steel construction (1.4003 grade). Other colour options available by request.

Products

Product	Incomer	Protection	Outgoing	Protection	Dimensions	Outdoor	MildSteel Indoor	316 Stainless Steel Harsh Environment
GCP 400A	3P + N + E Powerlock (Drain)	N/A	Fully rated copper, capable to suit 2 x M12 connections.	N/A	H400 x W400 x D280 (mm)	POA	POA	POA
GCP 630A	3P + N + E Powerlock (Drain)	N/A	Fully rated copper, capable to suit 2 x M12 connections.	N/A	H400 x W400 x D280 (mm)	POA	POA	POA
GCP800A	3P + N + E Powerlock (Drain)	N/A	Fully rated copper, capable to suit 2 x M12 connections.	N/A	H400 x W400 x D280 (mm)	POA	POA	POA
GCP 1000A	3P + N + E Powerlock (Drain)	N/A	Fully rated copper, capable to suit 2 x M12 connections.	N/A	H400 x W400 x D280 (mm)	POA	POA	POA

How it works



Operation
We recommend that the generator should be connected/disconnected when off load and not running. No voltage should be present at the power locks. We recommend following the convention of connecting in the following order: Earth - Neutral - L1 - L2 - L3, then disconnecting in reverse order.

All temporary power distribution equipment is manufactured by IDE in the UK and tested to BS 7671 (12 Months Certification). The products used within our distribution systems conform to EN 60309, EN 60529, EN 60947 and have a 12 month warranty.



Understanding your contingency power connection needs

IDE has over 25 years' experience in designing power distribution solutions. With direct access to our skilled engineers, we can help you understand and specify solutions for generator connection.



Highest reliability components and switchgear

You need to know that, when it's needed, our contingency power can be relied upon. We use the highest quality switchgear and components in all our products, giving you confidence.



Site survey and installation

We provide site surveys to advise on positioning and power connection requirements, and can also install if required.



Long-term partnership

Requirements can change over time, and we can help update and modify our power clusters to suit. We can also provide annual checks and replacement parts.

GCP-3200

The 3200A three-phase, neutral and earth Generator Connection Point can be fitted inside or outside of a building, allowing a safe and quick connection of a back-up generator to your facility's electrical system when required. Equipment housed within a floor standing steel enclosure. Powerlock (Drain) connections to 100x10mm copper bars with 300mm spreading distance for bottom entry outgoing cables.



Enclosure

Dark Grey (RAL7021) textured powder coated stainless steel construction (1.4003 grade). Other colour options available by request. Assembled to IP54.

Product	Incomer	Protection	Outgoing	Protection	Dimensions
GCP3200	3P + N + E 500A Powerlock Drain	N/A	10 x 10 copper bars c/w M12 clearance holes.	N/A	H1835 x W950 x D360 (mm)

GCP-L- 630

630A three-phase, neutral and earth Generator Connection Point. The equipment is housed within a wall mounted steel enclosure, with lockable cable entry door and integral crash frame for added security for use in public areas. Powerlock (Source) cables can be supplied by IDE at an additional cost.



Enclosure

Available in any RAL colour textured powder coated stainless steel construction (1.4003 grade). Assembled to IP54.

Product	Incomer	Protection	Outgoing	Protection	Dimensions
GCP-L-630	3P + N + E 500A Powerlock Drain	N/A	3 x 10 copper bars c/w M12 clearance holes.	N/A	H750 x W500 x D250 (mm)

Other sizes available:
1250A, 1600A, 2000A, 2500A & 4200A

Load Bank Connection Point

We supply solutions which can be connected to your load bank when the back-up generator is undergoing testing/maintenance.

Equipment housed within a steel enclosure. Powerlock (Drain) connections to 100 x 10mm copper bars with 300mm spreading distance for bottom entry outgoing cables.

Products

Product	Incomer	Protection	Outgoing	Protection	Dimensions
LBC 2000A	3P + N + E 500A Powerlock Drain	N/A	10 x 10 copper bars c/w M12 clearance holes.	N/A	H1835 x W950 x D360 (mm)
LBC 3200A	3P + N + E 500A Powerlock Drain	N/A	10 x 10 copper bars c/w M12 clearance holes.	N/A	H1835 x W950 x D360 (mm)

Enclosure

Dark Grey (RAL7021) textured powder coated floor standing stainless steel construction (1.4003 grade). Other colour options available by request. Assembled to IP54.

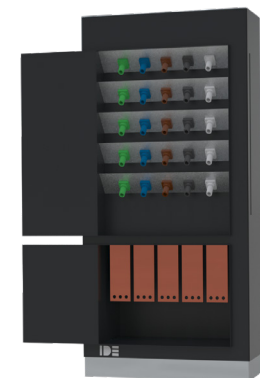
How it works



Fixed Onsite Generator



Generator LV Panel



Load Bank Connection Point



Temporary Load Bank

Operation

We recommend the generator should be connected / disconnected when off load and not running. No voltage should be present at the powerlocks. We would also recommend following the convention of connecting in the following order: Earth - Neutral - L1 - L2 - L3. Then disconnecting in the reverse order. All temporary power distribution equipment is manufactured by IDE in the UK and tested to BS 7671 (12 Months Certification). The products used within our distribution systems conform to EN 60309, EN 60529, EN 60947 and have a 12 month warranty.



IDE SIGN

Passion led products.

Innovation and sustainability is at the centre of our product design.

We are passionate about brainstorming new ideas for the temporary power industry.

Innovation

It is passion that led us here, the passion from our team of expert engineers brainstorming innovative ideas for the temporary power industry.

Passion for a low carbon future and sustainability is weaved throughout our products, services and the team.

Our forward-thinking approach is visible through our advisers who work closely with our expert engineers within design and manufacturing to create the perfect solution.

Onsite Power Monitoring Tool

Smart technology, innovation and passion for a low carbon future comes together to create our onsite power monitoring tool, erica.

Erica, can assist in reducing power wastage, costs and carbon emissions.

Added to a site distribution board, information is sent to the cloud and is available on your desktop/tablet, with this data, new power saving methods can be implemented effectively.



IDEV

Temporary Electric Vehicle Charging Solutions. Our range of EV chargers are suitable for charging at remote locations, construction sites and festivals to meet the needs of a growing fleet of electric and hybrid vehicles.



IDEV Onsite EV Charger

IDEV Onsite is a robust and easily mountable temporary EV charging point for the challenging construction and industrial environment.

Robust design with easy on site mounting with clamp plate. With charging rates up to 32A, single or three phase (7.4kWh or 22kWh), vehicles can be conveniently and quickly charged whilst onsite, whether it's a quick top-up for visiting personnel or full vehicle charge.

Compatible with all European vehicles, the Type 2 connection is the most popular, covering BMW, Tesla, VW, Renault, Mercedes, Porsche, Hyundai and many others.



Specification	Details
Input	32A 400V 5 or 3 Pin IP67 Inlet or Hardwire with adaptable mounting plate. No protection – requires connecting to a 32A RCBO outlet.
Output	Type 2 Charging socket. 3 phase capable. locking pin for cable security. PEN and DC 6mA protection.
ON/OFF	Key switch to enable charging. three settings 'OFF', 16A or 32A
Mounting	4 M5 studs and clamp plate. Clamp plate used for mounting to IDE SD range and on-site fencing /boarding etc.
Adapters	32A 1 phase socket, 32A 3 phase socket, blanking plate for rear cable entry, gland plate for bottom entry hard wire
Dimensions	H160 x L245 x D165 (mm)

IDEV Onsite + EV Charger

The IDEV Onsite + AC charging unit has been designed to charge electric vehicles from a temporary power source.

Housed in a steel enclosure suitable for outdoors, this EV charger has 2 x type 2 charge sockets, for a selection of models to suit all input requirements. Portable charging unit for ease of use.

Up to 3 charge units, 6 charging points can be connected in line and powered from a single 63A 3 phase supply, or 6 modules with 12 charging points in "low power" mode.



Specification	Details
Input	Optional configurations for 32A 3 Phase, 63A Single Phase, 63A 3 Phase and feedthrough 63A 3 Phase.
Output	2 x Type 2 Charging socket. 3 phase capable. locking pin for cable security. PEN and DC 6mA protection.
ON/OFF	Lockable 4pole isolator, and charge current selector (16A or 32A)
Phase Selector	Phase selector switch to balance phases during set up. Three phase only.
Dimensions	H600 x W350 x D180 (mm)

Cables

IDE cables are designed to connect the temporary power network from the generator to the end user.

We can supply a range of multi-core and single-core cable to support your temporary power projects.

Single Core Cables

Our premium single-core HO7RN-F cables can be terminated with lugs or powerlocks. Available to purchase or hire and can be turned around quickly to support your project. Size ranges from 5 - 50 metres. Price available upon request.

Lugg Ends

Single-core HO7RN-F cable terminated with lugged ends (M12 & M16) to make connections to standby or permanent generators.



120mm size cable
150mm size cable
240mm size cable

PowerLock

Single-core HO7RN-F cable terminated with powerlock ends (source and drain) to make connections to standby or permanent generators.



120mm size cable
150mm size cable
240mm size cable

Multi Core Cables

Our plug and play HO7RN-F multi-core cable is regularly used to connect the temporary power network from the generator directly to the end user. Rubber flex and IP rated our HO7RN-F cable is easy to move across site and is terminated with a Mennekes plug and coupler.



16A Single Phase Cable
32A Single Phase Cable
63A Single Phase Cable



16A Three Phase Cable
32A Three Phase Cable
63A Three Phase Cable
125A Three Phase Cable

Cable Ramps

IDE's 5 channel cable ramps are manufactured from UV stabilised and halogen free polyurethane. Designed for low volume vehicular traffic and all pedestrian areas, indoor or external applications between -40°C and +49°C. Interlocking compatible with Linebacker models.



Maximum load
per axle 9140Kg
@ 20°C

Heavy Duty
Dimensions: H: 46 x W: 502 x L: 910 (mm)



Maximum load
per axle 4763 Kg
@ 20°C

Light Duty
Dimensions: H: 50 x W: 445 x L: 910 (mm)

Speak to an IDE Adviser.

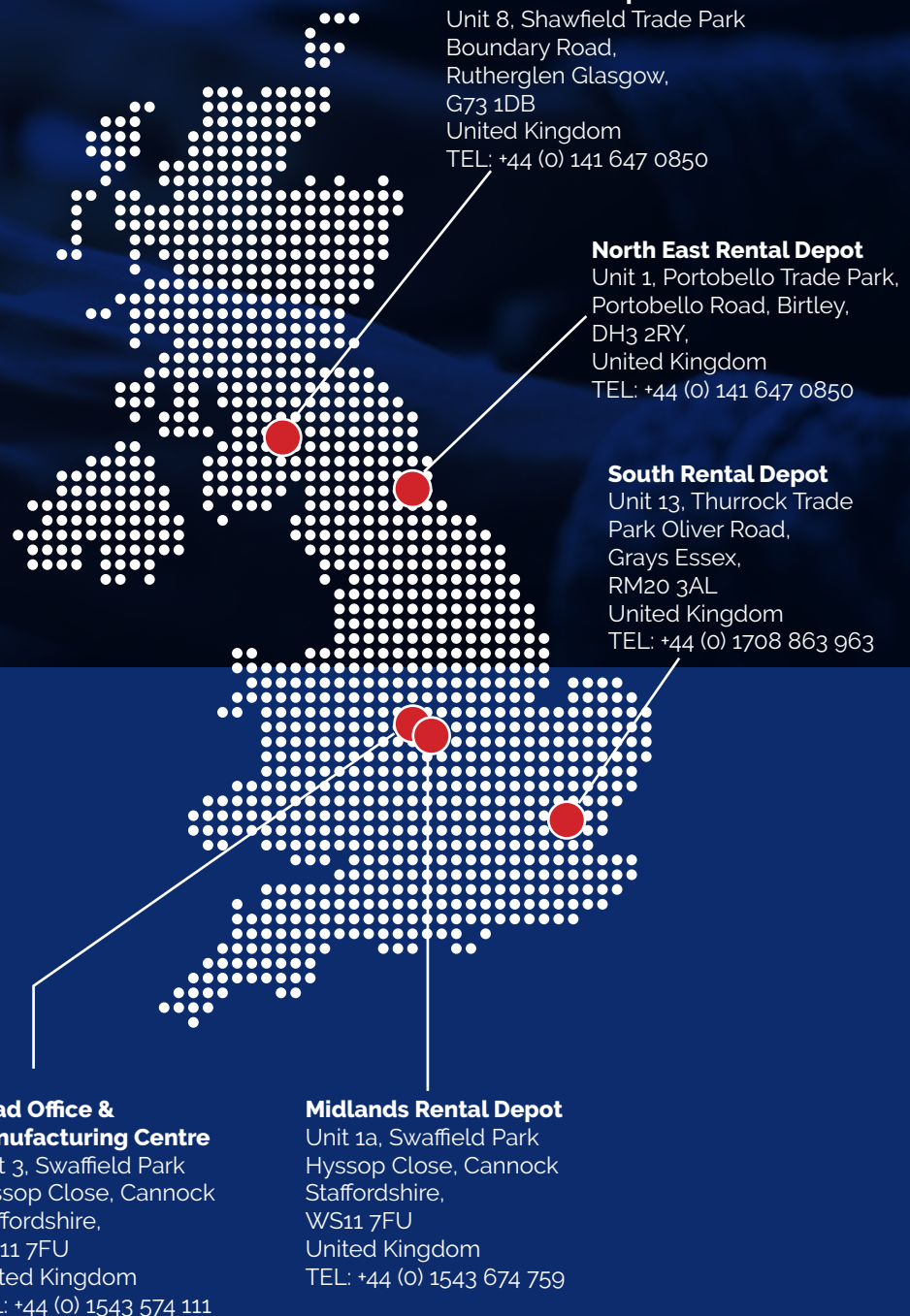
Contact us today to see how we can help with your project.

Call us:
01543 574 111
Option 1 for sales
Option 2 for rental.

Send us an email:
General enquiries: enquiries@idesystems.co.uk
Sales: sales@idesystems.co.uk
Rental: rental@idesystems.co.uk

Visit our website:
www.idesystems.co.uk, where you can view all products and services.

Get Social:
Follow our page on LinkedIn: [ide.systems](https://www.linkedin.com/company/ide-systems)



Jargon Buster

Single Phase Single phase consists of 3 conductors' - line1, line2, line3, neutral and protective earth. Plugs and couplers are usually blue colour.

Three Phase Three phase consists of 5 conductors' line1, line2, line3, neutral and protective earth. Plugs and couplers are usually red colour.

Multi-core cable Made up of multiple cores of copper wire. Often used in the event industry.

Single-core cable Made up of a stranded copper conductor insulated by PVC.

HO7RN-F Popular industrial cable type used within the industry.

H: Harmonised

07: 450/750 Volts

R: Ethylene polychloroprene rubber (high resistance to abrasion)

N: Polychloroprene (oil, grease and water resistant)

F: Fine wire flexible chord (Flame retardant)

Power lock source Often referred to as "female ends," the Power lock source connectors are terminated to the drain ends to allow the secure connection of cable to a generator and other electrical supplies.

Power lock drain Often referred to as "male ends," the Power lock drain connectors are terminated to the source ends to allow the secure connection of cable to a generator and other electrical supplies.

Lugs Terminated to the ends of cable to allow for a secure connection of cable to generators and other electrical supplies.

Voltage (V) The "push" that causes charges to move in a wire or another electrical conductor.

Hardwire Connecting the temporary power network to the mains supply or generator using lugged cable ends.

Earth Used to protect you from an electrical shock. A common return path for electrical current.

Neutral A circuit conductor that normally carries current back to its source.

Circuit Breaker A device used for automatically stopping the flow of current in an electrical circuit as a safety measure.

On-hire When equipment is rented to the customer for a weekly fee.

Off-hire When the equipment finishes its rental duration.

Power distribution A piece of equipment that divides a power supply to a number of smaller supplies.

Amps (A) Is the base unit of electric current.

IP Ratings The degree of protection required for the environment that the equipment is intended to be used in.

kVA (Kilo-Volt-Ampere) Typically used to measure the power output of the generator.

Incomer/Inlet Main power supply feeding the distribution board.

Outgoing Usually a protected socket outlet.

Plug Is a male end of a cable

Socket Is a female end of a cable

MCB (Miniature Circuit Breaker) Often used in smaller power applications where the voltage does not exceed 400V

MCCB (Moulded Case Circuit Breaker) Often used in larger power applications for use up to 690V

RCD/RCCB (Residual Current Device or Residual Current Circuit Breaker) Is a device that breaks an electric circuit by detecting imbalance of current flowing through line and neutral conductors.

RCCBO (Residual Current Circuit Breaker with Overload) Is an RCD/RCCB with overload protection.

ELR (Earth Leakage Relay) Is a device that, combined with a CT (Current Transformer) detects current differential between phase and neutral. Ultimately determining earth leakage used with a Shunt can operate a MCB or a MCCB (to the off position)

Site Distribution Board Is a metal power distribution box which is designed for use on site electrical installations.

High Power Distribution A term used to describe a range of our distribution boards (630A-3200A). **Site Transformers** (normally 110V) Used for reducing voltages. Commonly used on low voltage systems i.e. building sites.

AMF (Automatic Mains Failure) Detects power failure via voltage monitoring then changes over to a secondary supply automatically, then back again.

Inline protection Is designed to protect cables or distribution in the event of a short circuit, earth fault or overload.

Cable ramps Are designed to protect cables from vehicles and other heavy duty equipment. **Junction Boxes** Are designed to terminate lugged ends of a cable and be able to extend or split cable.

Electric Vehicle Charging points Are designed to plug into a 63A 3 phase or single-phase supply (with convertor lead) and output to a controlled (by the vehicle) and protected Type 2 socket for charging electric vehicles. fast 32A charging is available.

Smart Power Distribution New innovative technology that monitors power (in Kwh), status (on/off), and has a facility to remotely control switches and circuit breakers. This new technology can be fitted and retro fitted to most of our standard range of products.



Test and Turn

All IDE equipment is fully tested by our in house electricians.

Equipment can be supplied to you with a valid test certificate upon request.

We can also carry out annual testing on your equipment, and issue you with appropriate certification.



Technical support

If you require any technical support,

contact us on:

T: 01543 574 111

or E: support@idesystems.co.uk

