

LOW VOLTAGE SOLUTIONS FOR BUILDING & CONSTRUCTION,  
MARINE & RAIL INDUSTRIES, MAINTENANCE WORKSHOPS,  
RENEWABLE ENERGY, MANUFACTURING, EDUCATION & MORE



# SUPPLYING ELECTRICAL POWER TRANSFORMERS TO THE TRADE

**TRANSPOWER**  
ENGINEERING - Part of the **CEENORM** Group



A DIVISION OF

**CEE****NORM**  
U.K. Ltd



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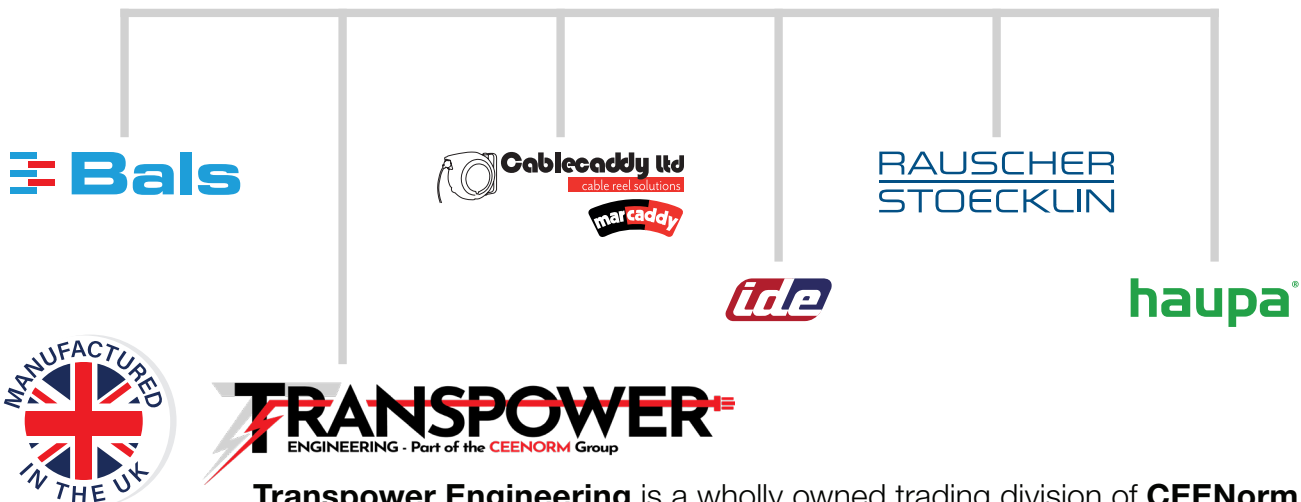
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# SUPPLYING THE ELECTRICAL TRADE AND INDUSTRY PROFESSIONALS

**CEENORM UK Ltd** is a market leader in supplying industrial products and equipment to the electrical industry, providing solutions that are made for harsh conditions and environments.

We supply a range of products manufactured by **Bals**, **IDE**, **Rauscher & Stoecklin** and **Haupa**, as well as custom building solutions under our own Ceenorm brand.

In addition, **Ceenorm** wholly owns both **Cablecaddy** (supplier of flexible industrial cable reel solutions) and **Transpower Engineering**, which is operated out of our site in Manchester.



**Transpower Engineering** is a wholly owned trading division of **CEENorm UK Ltd**. All **Transpower** products are manufactured and tested at our Manchester site.

# ABOUT TRANSPOWER ENGINEERING

SPECIALISING in the production, design, and provision of both custom and standard transformers, **Transpower** has been manufacturing **low voltage electrical power transformers** at our **ISO9001-accredited** site in Manchester for more than 30 years.

**Transpower** is a number one choice for industries such as building, construction, marine, rail industry, education/training, maintenance workshops and temporary sites.



All units are individually prewired, tested and inspected



Transformer solutions for a range of applications



Robust for longevity in rough environments



Multiple input and output voltages for up to 690v single, two or three phase



Extra accessories such as isolators and sockets are also available



Some transformers are available as free standing or floor/ wall mountable



Units from IP23 to IP65 are available



Protective MCB and RCBO devices available



Manufactured in accordance with BS EN 61558

# WHAT IS A TRANSFORMER?

THE purpose of a transformer is to change the voltage of electricity flowing in a circuit. Transformers can be used to both increase and decrease voltage. Transformers have an input voltage (primary) and output voltage (secondary).

## STEPPING UP

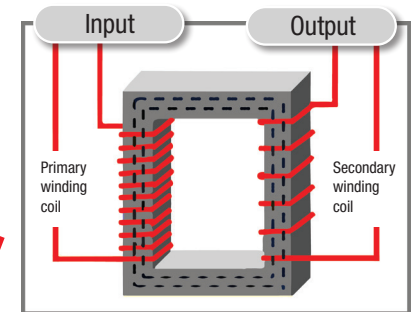
A step-up transformer converts a low voltage to a high voltage.

## STEPPING DOWN

A step-down transformer converts a high voltage to a lower voltage.

## DOUBLE-WOUND TRANSFORMER (ISOLATION)

Also known as an isolation transformer. Most of the transformers we make are double-wound, but not all. Double-wound transformers work on the principle of mutual inductance; they have a primary and secondary coil and a change in the current of one coil will affect the current and voltage on the second coil, even if they are not touching. Because the two coils are not touching (i.e. isolated from each other) there is some protection against power surges. With a double-wound transformer, step-up is achieved by having more coils in the secondary (output) coil, while step-down is achieved by having more coils in the primary (input) coil.



## AUTO-WOUND TRANSFORMERS

Auto-wound transformers use a single coil, which acts as both the primary and secondary winding, so there is no isolation of the input and output, and consequently no protection from power surges.

Auto-wound transformers can become step-up or step-down, by 'tapping' the coil at a certain point.

## INTERMITTENT/TOOL RATED

Intermittent/tool rated transformers cannot be used continuously, they are for use in short bursts.\*

## CONTINUOUS

A continuous transformer at the rated kVA allows for exactly what it suggests, continuous use.

\* Some intermittent tool rated transformers can be operated continuously, at a lower power

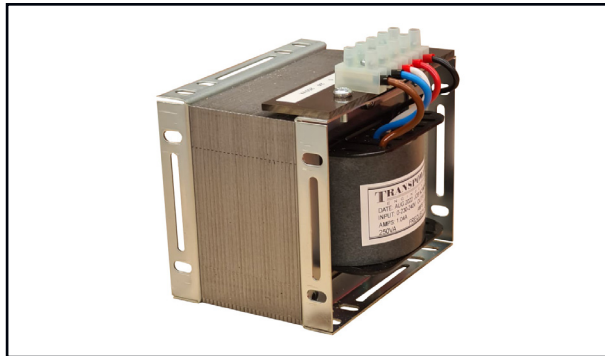
# WHAT TRANSFORMERS DO WE OFFER?



**WORKSHOP**



**SITE**



**PANEL**



**DISTRIBUTION**

*AND WE ALSO OFFER CUSTOM BUILD TRANSFORMERS!*

# AREAS OF APPLICATION

OUR Transformers are used in multiple sectors, these include...



## **BUILDING AND CONSTRUCTION**

Commonly used for the power supply of tools etc. Transformers used in construction need to be able to withstand tough conditions.



## **RAILWAY INDUSTRY**

Portable & permanent/fixed transformers transformers for use in railway maintenance workshops etc..



## **MARINE INDUSTRY**

Used in power supplies with dockyards etc, they need to withstand the harsh and corrosive conditions associated with the sea.



## **MANUFACTURING & UTILITIES**

Used to provide consistent and reliable power during manufacturing processes, avoiding down time caused by power supply issues.



## **MAINTENANCE WORKSHOPS**

Used within workshops and other settings (such as warehousing) where there might be the need for a reliable power supply.



## **RENEWABLE ENERGY**

Transformers are used in the supply of renewable energy, as well as in the maintenance of infrastructure such as wind farms.



## **TRAINING & EDUCATION**

Commonly used in training & educational establishments, particularly building & construction training centres etc.



# WORKSHOP TRANSFORMERS

WE OFFER both continuous rated and tool rated (intermittent) workshop transformers. Single & two phase transformers are available, and they can be either wall-mounted or free-standing.

## CONTINUOUS RATED WORKSHOP TRANSFORMERS

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A MUCH WIDER RANGE

| RATING     | PHASE  | POWER  | INPUT | OUTPUT   | IP RATING | MOUNT TYPE | SIZE            | PRODUCT CODE       |
|------------|--------|--------|-------|----------|-----------|------------|-----------------|--------------------|
| Continuous | Single | 1kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 223 x 220 x 157 | TRA1KVAE 240/110   |
| Continuous | Single | 2kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 243 x 270 x 180 | TRA2KVAE 240/110   |
| Continuous | Single | 3kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 269 x 345 x 222 | TRA3KVAE 240/110   |
| Continuous | Single | 5kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 269 x 345 x 222 | TRA5KVAE 240/110   |
| Continuous | Single | 6kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA6KVAE 240/110   |
| Continuous | Single | 7.5kVA | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA7.5KVAE 240/110 |
| Continuous | Single | 10kVA  | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA10KVAE 240/110  |
| Continuous | Two    | 1kVA   | 415V  | 110V CTE | IP23      | Wall/floor | 244 x 270 x 177 | TRA1KVAE 415/110   |
| Continuous | Two    | 2kVA   | 415V  | 110V CTE | IP23      | Wall/floor | 243 x 270 x 184 | TRA2KVAE 415/110   |
| Continuous | Two    | 3kVA   | 415V  | 110V CTE | IP23      | Wall/floor | 269 x 345 x 222 | TRA3KVAE 415/110   |
| Continuous | Two    | 5kVA   | 415V  | 110V CTE | IP23      | Wall/floor | 269 x 345 x 222 | TRA5KVAE 415/110   |
| Continuous | Two    | 7.5kVA | 415V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA7.5KVAE 415/110 |
| Continuous | Two    | 10kVA  | 415V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA10KVAE 415/110  |

## TOOL RATED/INTERMITTENT WORKSHOP TRANSFORMERS

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A MUCH WIDER RANGE

| RATING       | PHASE  | POWER      | INPUT | OUTPUT   | IP RATING | MOUNT TYPE | SIZE            | PRODUCT CODE         |
|--------------|--------|------------|-------|----------|-----------|------------|-----------------|----------------------|
| Intermittent | Single | 1.5kVA*    | 240V  | 110V CTE | IP23      | Wall/floor | 223 x 216 x 157 | 1.5KTRE1             |
| Intermittent | Single | 3.3kVA**   | 240V  | 110V CTE | IP23      | Wall/floor | 243 x 270 x 184 | 3KTRE                |
| Intermittent | Single | 3.3kVA**   | 240V  | 110V CTE | IP23      | Wall/floor | 243 x 270 x 184 | 3KTRE2 (2-GANG)      |
| Intermittent | Single | 5kVA***    | 240V  | 110V CTE | IP23      | Wall/floor | 269 x 345 x 222 | 5KTRE                |
| Intermittent | Single | 6.3kVA**** | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | 6.3KTRE 415/110/4C16 |
| Intermittent | Single | 10kVA***** | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | 10KTRE 240/110       |

\* 750VA IF USED CONTINUOUS, \*\* 1.65kVA IF USED CONTINUOUS, \*\*\*3kVA IF USED CONTINUOUS, \*\*\*\*5kVA IF USED CONTINUOUS, \*\*\*\*\*7.5kVA IF USED CONTINUOUS



# SITE TRANSFORMERS

PORTABLE transformers for use on site. Single phase or three phase. 3kVA up to 20 kVA. Sitemasters and smaller power tool transformers (step-down and step-up) available.

## SITE TRANSFORMERS/SITEMASTERS (HEAVY DUTY)

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A MUCH WIDER RANGE

| RATING     | PHASE  | POWER | INPUT | OUTPUT   | IP RATING | SOCKETS | SIZE            | PRODUCT CODE        |
|------------|--------|-------|-------|----------|-----------|---------|-----------------|---------------------|
| Continuous | Single | 5kVA  | 240V  | 110V CTE | IP44      | 5       | 650 x 465 x 464 | 5KSITE240C          |
| Continuous | Single | 10kVA | 240V  | 110V CTE | IP44      | 6       | 650 x 465 x 464 | 10KSITE240C         |
| Continuous | Single | 10kVA | 240V  | 110V CTE | IP65      | 6       | 650 x 465 x 464 | 10KSITE240CIP65     |
| Continuous | Three  | 10kVA | 415V  | 110V CTE | IP44      | 6       | 650 x 605 x 464 | 10KSITE3PHC         |
| Continuous | Three  | 10kVA | 415V  | 110V CTE | IP65      | 6       | 650 x 465 x 464 | 10KSITE3PHC-IP65    |
| Continuous | Three  | 20kVA | 415V  | 110V CTE | IP44      | 10      | 939 x 765 x 630 | 20KSITE3PHC/616/432 |
| Continuous | Three  | 20kVA | 415V  | 110V CTE | IP44      | 12      | 939 x 765 x 630 | 20KSITE3PHC         |

## 3kVA & 5kVA PORTABLE TOOL TRANSFORMERS (STEP-DOWN)

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A WIDER RANGE

| RATING       | PHASE  | POWER   | INPUT | OUTPUT   | IP RATING | SOCKETS | SIZE            | PRODUCT CODE |
|--------------|--------|---------|-------|----------|-----------|---------|-----------------|--------------|
| Intermittent | Single | 3kVA*   | 240V  | 110V CTE | IP44      | 2       | 220 x 220 x 210 | 3KTT         |
| Intermittent | Single | 5kVA**  | 240V  | 110V CTE | IP44      | 3**     | 270 x 350 x 270 | 5KTT         |
| Intermittent | Two    | 3.3kVA* | 415V  | 110V CTE | IP44      | 2       | 220 x 220 x 210 | 3KTT415V     |

\* 1.65kVA IF USED CONTINUOUS, \*\*3kVA IF USED CONTINUOUS \*\* 2 x 16A and 1 x 32A

## 3kVA PORTABLE TOOL TRANSFORMERS (STEP-UP)

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A WIDER RANGE

| RATING       | PHASE  | POWER | INPUT | OUTPUT | IP RATING | SOCKETS | SIZE            | PRODUCT CODE |
|--------------|--------|-------|-------|--------|-----------|---------|-----------------|--------------|
| Intermittent | Single | 3kVA  | 110V  | 240V   | IP44      | 2       | 220 x 220 x 210 | 3KTTSTEPUP   |



We can also supply Sitemasters on wheels...



# PANEL TRANSFORMERS



WE OFFER continuous rated panel transformers ranging from 50VA to 10kVA. Panel transformers can have an output of either 24V AC, or 110V CTE.

## PANEL TRANSFORMERS

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A MUCH WIDER RANGE

| RATING     | POWER  | INPUT    | OUTPUT   | MOUNT TYPE | SIZE            | PRODUCT CODE           |
|------------|--------|----------|----------|------------|-----------------|------------------------|
| Continuous | 50VA   | 230-240V | 24V AC   | Panel      | 91 x 80 x 62    | TRA50VAO 230-240/24    |
| Continuous | 100VA  | 230-240V | 24V AC   | Panel      | 100 x 100 x 75  | TRA100VAO 230-240/24   |
| Continuous | 150VA  | 230-240V | 24V AC   | Panel      | 110 x 100 x 90  | TRA150VAO 230-240/24   |
| Continuous | 500VA  | 230-240V | 24V AC   | Panel      | 140 x 136 x 125 | TRA500VAO 230-240/24   |
| Continuous | 50VA   | 230-240V | 110V CTE | Panel      | 91 x 80 x 62    | TRA50VAO 230-240/110   |
| Continuous | 100VA  | 230-240V | 110V CTE | Panel      | 110 x 100 x 75  | TRA100VAO 230-240/110  |
| Continuous | 150VA  | 230-240V | 110V CTE | Panel      | 110 x 100 x 90  | TRA150VAO 230-240/110  |
| Continuous | 250VA  | 230-240V | 110V CTE | Panel      | 125 x 120 x 104 | TRA250VAO 230-240/110  |
| Continuous | 500VA  | 230-240V | 110V CTE | Panel      | 140 x 136 x 125 | TRA500VAO 230-240/110  |
| Continuous | 750VA  | 230-240V | 110V CTE | Panel      | 140 x 136 x 131 | TRA750VAO 230-240/110  |
| Continuous | 1000VA | 230-240V | 110V CTE | Panel      | 140 x 136 x 138 | TRA1KVAO 230-240/110   |
| Continuous | 1500VA | 230-240V | 110V CTE | Panel      | 170 x 168 x 180 | TRA1.5KVAO 230-240/110 |
| Continuous | 250VA  | 230-240V | 24V AC   | Panel      | 125 x 120 x 104 | TRA250VAO 230-240/24   |
| Continuous | 50VA   | 240-415V | 24V AC   | Panel      | 91 x 80 x 62    | TRA50VAO 240-415/24    |
| Continuous | 100VA  | 240-415V | 24V AC   | Panel      | 110 x 100 x 75  | TRA100VAO 240-415/24   |
| Continuous | 1kVA   | 240-415V | 24V AC   | Panel      | 140 x 136 x 138 | TRA1KVAO 240-415/24    |
| Continuous | 100VA  | 240-415V | 110V CTE | Panel      | 110 x 100 x 75  | TRA100VAO 240-415/110  |
| Continuous | 250VA  | 240-415V | 24V AC   | Panel      | 125 x 120 x 104 | TRA250VAO 240-415/24   |
| Continuous | 500VA  | 240-415V | 24V AC   | Panel      | 140 x 136 x 125 | TRA500VAO 240-415/24   |
| Continuous | 50VA   | 240-415V | 110V CTE | Panel      | 91 x 80 x 62    | TRA50VAO 240-415/110   |
| Continuous | 250VA  | 240-415V | 110V CTE | Panel      | 125 x 120 x 104 | TRA250VAO 240-415/110  |
| Continuous | 500VA  | 240-415V | 110V CTE | Panel      | 140 x 136 x 125 | TRA500VAO 240-415/110  |
| Continuous | 1000VA | 240-415V | 110V CTE | Panel      | 140 x 136 x 138 | TRA1KVAO 240-415/110   |

panel transformers continues on next page



# PANEL & DISTRIBUTION TRANSFORMERS

## PANEL TRANSFORMERS (CONTINUED)

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A MUCH WIDER RANGE

| RATING     | POWER | INPUT    | OUTPUT | MOUNT TYPE | SIZE            | PRODUCT CODE         |
|------------|-------|----------|--------|------------|-----------------|----------------------|
| Continuous | 50VA  | 400-440V | 24V AC | Panel      | 91 x 80 x 62    | TRA50VAO 400-440/24  |
| Continuous | 100VA | 400-440V | 24V AC | Panel      | 110 x 100 x 75  | TRA100VAO 400-440/24 |
| Continuous | 150VA | 400-440V | 24V AC | Panel      | 110 x 100 x 90  | TRA150VAO 400-440/24 |
| Continuous | 250VA | 400-440V | 24V AC | Panel      | 125 x 210 x 104 | TRA250VAO 400-440/24 |
| Continuous | 500VA | 400-440V | 24V AC | Panel      | 140 x 136 x 125 | TRA500VAO 400-440/24 |

DISTRIBUTION transformers are available as continuous rated, ranging from 3kVA to 15kVA. They can be either wall-mounted or free-standing.

## DISTRIBUTION TRANSFORMERS

COMMONLY-REQUESTED SPECIFICATIONS ARE LISTED - WE CAN OFFER A MUCH WIDER RANGE

| RATING     | PHASE  | POWER  | INPUT | OUTPUT   | IP RATING | MOUNT TYPE | SIZE            | PRODUCT CODE            |
|------------|--------|--------|-------|----------|-----------|------------|-----------------|-------------------------|
| Continuous | Single | 3kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 353 x 353 x 250 | TRA3KVAE 240/110/2C16   |
| Continuous | Single | 5kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA5KVAE 240/110/3C16   |
| Continuous | Single | 5kVA   | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA5KVAE 240/110/4C16   |
| Continuous | Single | 7.5kVA | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA7.5KVAE 240/110/5C16 |
| Continuous | Single | 10kVA  | 240V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA10KVAE 240/110/6C16  |
| Continuous | Two    | 3kVA   | 415V  | 110V CTE | IP23      | Wall/floor | 353 x 353 x 250 | TRA3KVAE 415/110/2C16   |
| Continuous | Two    | 5kVA   | 415V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA5KVAE 415/110/3C16   |
| Continuous | Two    | 6kVA   | 415V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA6KVAE 415/110        |
| Continuous | Two    | 7.5kVA | 415V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA7.5KVAE 415/110/4C16 |
| Continuous | Two    | 10kVA  | 415V  | 110V CTE | IP23      | Wall/floor | 454 x 384 x 305 | TRA10KVAE 415/110/6C16  |

# CUSTOM-BUILD TRANSFORMERS

BY WORKING closely with clients to establish their exact requirements, **Transpower** offers custom solutions to meet the most demanding specifications while remaining cost effective.

**Transpower** incorporates **Ceenorm**-branded products into all **custom builds**, ensuring quality as well as speed when delivering each and every bespoke custom-build project.



We mainly work from **12VA** to **15kVA (single phase)** and up to **45kVA (three phase)** but we can actually supply transformers in up to **500kVA**. While **single** and **three phase** are more common, our custom build team also manufacture many **two-phase** transformers.

We can also **custom-build maintenance panels**, with **integral transformers**. These are built at Ceenorm's site in Telford, by our custom-build specialists, using high quality **Bals plugs and sockets**, with our custom-build team able to guide you every step of the way.



Built to the highest quality and standards



Designed & Engineered to any specification



Communication with clients every step of the way



## WE ALSO OFFER

WE can also supply **110V junction boxes** and **110V & 240V extension leads**. Our **junction boxes** are tough and reliable **junction/splitter boxes** for power distribution, configured to suit your needs. MCB protection can be added if required. **Extension leads** can be made to an exact length to suit individual requirements.



## YOU MIGHT ALSO BE INTERESTED IN CABLECADDY...



**CABLE REEL SOLUTIONS INCLUDING MULTI-SOCKET**

# CEENORM & BALS

THE **plugs and sockets** used within our transformers are supplied from **Bals**, who are part of the **Ceenorm** family. **Ceenorm UK Ltd** are the only supplier of **Bals** products within the UK. **Bals** are known internationally within the industry for their innovations and developing ground-breaking products that help you save time during installation as well as possessing the durability to meet and surpass the everyday challenges presented in working areas.



**PLUGS, CONNECTORS &  
PHASE INVERTERS**



**SOCKETS &  
APPLIANCE INLETS**



**UNSWITCHED & SWITCHED  
INTERLOCKED SOCKETS**

## QUICK CONNECT

When it comes to providing plugs and connectors that are safer, more dependable, and simpler to use, **Quick-Connect** leads the market. The innovative method offers a maintenance-free connection while also cutting down installation time.

## MULTI GRIP

Manufactured with a moulded rubber seal to protect cables and conductors, **Multi Grip** also incorporates a strain relief design system to prevent accidental loosening and cable deformation.





## **CONTACT TRANSPOWER**

WHEN enquiring about our transformers, please consider the following

**Size (VA/WATTS/AMPS)**

**Voltage (INPUT/PRIMARY & OUTPUT/SECONDARY)**

**Enclosure (OPEN/ENCLOSED)**

**IP rating (IP23/IP44/IP65)**

**Rating (CONTINUOUS/INTERMITTENT RATED)**

**Additions (SOCKETS/FUSES/MCBs)**

**Type (STEP UP/STEP DOWN)**

**Application (WHAT IS THE TRANSFORMER FOR?)**

Give us as much information as possible, to make it easier for us to help...



**[www.transpowerengineering.co.uk](http://www.transpowerengineering.co.uk)**



**0161 3367111**



**[sales@transpowerengineering.co.uk](mailto:sales@transpowerengineering.co.uk)**

TRANSPower ENGINEERING, 23 Shepley Industrial Estate South, Audenshaw, Manchester, M34 5DW

# CEE NORM

U.K. Ltd



01952 212700  
sales@ceenorm.co.uk  
www.ceenorm.co.uk



0161 3367111  
sales@transpowerengineering.co.uk  
www.transpowerengineering.co.uk



01952 212700 (Option 4)  
info@cablecaddy.co.uk  
www.cablecaddy.co.uk



## TOGETHER WE HAVE THE **POWER** TO DO IT RIGHT



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