

Designing Low Voltage Networks For a Better Future



ConnectGrid is an online tool that allows users to plan, design and analyse low voltage electrical networks.

It is built on decades of network design experience and has been created to be easy to use whilst yielding quick, accurate results and giving powerful insight into how the network will perform.



It is the cutting-edge successor to WinDEBUT, which has been one of the UK electricity industry's leading low voltage network design tool for many years. ConnectGrid builds on this trusted and proven capability, and offers a modern user interface, an enhanced load flow engine and easy deployment and operation through any modern browser.

Low carbon technologies and local generation are putting more and more strain on electrical networks. Network designers need to be able to quickly assess the impact of alterations and new connections so that the network can be adapted to meet the needs of customers safely and at the lowest possible cost.

ConnectGrid is an essential tool for electrical network operators, connection providers, contractors, and design consultants.

ConnectGrid enables rapid, intuitive modelling of LV networks and is compatible with the most commonly used web browsers. It provides a modern, mobile-friendly, touchscreen enabled replacement to WinDEBUT. ConnectGrid is available via a flexible, subscription-based licensing system.

Features

- Fast and flexible user interface
- All new DEBUT engine
- Full low voltage design with embedded generation capability (Voltage/Current, Demand/Utilisation, Impedance, Faults/Fusing)
- Multiple load and generation types assessed together including EV chargers and solar PV.
- Grouped connections, any combination or number of loads at each connection
- Seasonal variation modelling, demand and generation assessment carried out side-by-side
- Cable derating for ducted sections
- Flicker assessment in line with the P28 standard
- Sustained and cyclic ratings
- Distributed connections
- Unbalanced 2-phase and 3-phase customers

Why use ConnectGrid?

- Easy to use web application that works on a wide variety of devices
- Centralised file management to access saved models
- Network schematic and assessment results shown overlaid on a map view
- Auto-calculated cable lengths from GIS co-ordinates
- Calculates smallest compliant cable sizes
- Rapid assessment of complex networks
- Minimal training requirements
- Cost effective with clear, simple pricing model
- Easy deployment with automatic updates
- Enterprise system integration available separately

