



CIRCUIT PROTECTION



Renewable Energy

Protection for the changing
demands of the **electrified home**

18TH
EDITION
AMD
BS7671 **4**



www.bgelectrical.uk

CIRCUIT PROTECTION FOR THE ELECTRIFIED HOME

Solar PV, battery storage, EV charging and heating and cooling technologies are changing the way installers specify circuit protection.

As electrical demand increases and energy flows become more complex, correctly specified circuit protection is essential to maintaining safe, compliant and reliable residential installations.

Whether upgrading an existing consumer unit, specifying a new installation or designing protection for a complete home energy system, BG provides a comprehensive range of consumer units, protective devices and accessories, combining dependable performance with installer-focused design.

Modern homes can generate electricity through solar PV, store it in batteries and use it to power technologies including EV chargers, heat pumps and air conditioning.

These technologies are changing how electricity is generated, stored and used within the home, creating new considerations for circuit protection.



WHY CIRCUIT PROTECTION MATTERS

Renewable generation, energy storage and increased electrification are changing the demands placed on residential electrical installations.

Solar PV and battery storage can introduce bidirectional energy flow, while EV charging, heat pumps and other electrically powered technologies can significantly increase electrical demand.

Correct selection of protective devices is therefore essential for protecting circuits and connected equipment while supporting safe, reliable and compliant installations.

ONE RANGE. MULTIPLE APPLICATIONS.

From consumer units and protective devices to surge protection and specialist heat pump protection, BG offers a comprehensive range of solutions for modern residential electrical installations.



Solar PV

Solar PV changes the traditional flow of electricity within a residential installation, making the correct selection of protective devices increasingly important for installers.



EV Charging

Domestic EV charging can introduce significant additional electrical demand, requiring appropriate protection for the circuit and charging equipment across both retrofit and new-build installations.



Battery Storage

Battery energy storage systems can introduce changing and bidirectional energy flows as electricity is stored, used within the home or exported to the grid, creating additional considerations for circuit protection.



Heating & Cooling

Heat pumps and air conditioning can introduce significant electrical loads as homes move towards electrically powered heating and cooling, placing new demands on the residential electrical installation.

CIRCUIT PROTECTION SOLUTIONS

From consumer units and protective devices to surge and specialist heat pump protection, BG offers the solutions installers need for modern residential electrical installations.



Consumer Units

The consumer unit sits at the heart of the home's electrical system, providing protection for circuits throughout the installation.

BG offers reliable consumer units for residential applications, from everyday domestic upgrades through to those incorporating solar PV, battery storage and EV charging.



Protective Devices

A comprehensive range of RCBs, RCDs, MCBs, AFDDs and SPDs, including double-pole bidirectional protective devices developed for the changing requirements of modern residential installations.



Accessories

Essential accessories designed to complement the BG Circuit Protection range, simplify installation and support a professional finish.

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