

# Sync Energy in the home





#### Worldwide Sales Coverage

Sync Energy is backed by the worldwide support structure of Luceco Group, a £230M+ Electrical Power and Lighting business, with offices globally situated within London, Jiaxing, Barcelona, Dubai and Mexico.

With a proven, trusted and reliable supply chain, Luceco has large warehousing facilities in Telford (148,000m<sup>2</sup>) as well as specialist state-of-the-art manufacturing facilities in Mansfield UK (52,000m<sup>2</sup>) and Jaixing, China (73,000m<sup>2</sup>). All facilities are governed by strict quality control procedures and adhere to ISO9001 and 14001.

Luceco Group consists of market leading brands that major in innovation and focus on energy efficiency, style and ease of installation, enabling sustainable living as an everyday choice for all.



**Our Brands** 

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#### Creating a sustainable future

Operating sustainably is a key part of Luceco Group's strategy and is reflected within our Purpose, Mission and Culture, where we have made sustainability a central pillar of the Group's success. Our product portfolio, combined with our business model and experience, puts us in a strong position to help create a sustainable future for all.

Our immediate targets have focused on realigning our product portfolio to concentrate on the sale of low carbon products, ensuring the plastic we use is recycled and further that the packaging of the products we sell is recyclable.

Whilst we recognise there is more to do, our operations continue to offer one of the lowest operational carbon footprints in our industry and we are continuing to progress our sustainability agenda moving forwards.

#### Our Purpose

Our purpose, and our mission, is to create sustainable and innovative solutions that enable our customers to make a positive impact on the environment.

#### **Our Mission**

Our mission is to provide the best products and solutions while prioritising sustainability, energy efficiency, and user experience.

#### Our Culture

Our culture at Luceco Group is defined by innovation, sustainability, and collaboration. We embrace forward-thinking and are dedicated to approaching our work with integrity and professionalism to achieve the highest ethical standards.

Luceco is dedicated to achieving net zero and tackling climate change through innovative products and collaboration with suppliers and consumers in the electrified tech industry.

Luceco understands the ambition and vision of its customers with a sustainable focus at the forefront and share the goals of a carbonfree planet for future generations. Luceco's commitment to net zero goes beyond product development, to business operations and through to its culture and people.

# Sync Energy in the Home One Connected Solution

At Sync Energy, we believe that sustainability should be simple. That's why we've combined smart design with effortless usability to create a Sync Energy whole home solution, with a range of products designed to help you take control of your energy. SAUC ()

From Hybrid Inverters and Battery Storage to Solar Power Diverters and EV Chargers, every solution has been thoughtfully engineered to be easy to install, intuitive to use, and seamlessly connected through the Sync Energy App, the only platform you'll need for total home energy management.

Whether you're looking to harness excess solar power, optimise off-peak tariffs, or simply run a more energy-efficient home.

Sync Energy makes living sustainably easier, smarter and more accessible for everyone.







#### **Flexible Solutions**

A flexible and scalable Home Energy Management solution, Flow is designed to optimise sustainable energy and storage. The Flow Range can be configured to suit a wide range of property types and energy needs, with a choice of 3.6kW or 6kW Hybrid Inverters and modular Battery Storage expandable up to 35.84kWh.

#### Effortless Installation

Every detail of the Sync Energy Flow system has been designed to make installation quicker, easier, and neater. From hidden battery handles that simplify lifting and positioning, to plug-and-play connectors that reduce wiring time for installers. With a dedicated wiring area between the inverter and batteries, this allows clean and efficient cabling, all supported by a mounting base with adjustable feet to ensure a perfectly level setup for even or uneven surfaces.

#### **Future Ready**

Suitable for new installations or retrofit projects, with or without solar (PV), the system provides future-ready energy management with remote monitoring and control via the Sync Energy App.

#### Sync Energy Connectivity

Our intuitive, dedicated Sync Energy App has been designed to work seamlessly with our home energy management system, bringing everything together in one place. With Sync Energy, there's no need for additional third-party apps. You can monitor, manage, and control your home energy all from a single app, including our Tariff Sense feature, which tracks your personal energy consumption and savings based on your specific energy tariff.

#### Savings from a typical Home Energy Management System

Our HEMs systems will enable consumers to efficiently conrol their energy usage.

#### 10pm-6am

Battery changes from the grid at off-peak cost (Potential to save up to 75% on electricity bills)



3pm-10pm



Solar Energy stored in the batteries from day is used to offset higher evening peak time costs



#### 6am-10am

Battery used to offset higher morning peak time costs



10am-3pm



Solar Energy generated in the day, Excess energy not used by the home is stored in the batteries for use later. (Upto 50% faster payback period vs solar panels alone)

## Sync Energy | LiFePO4 Batteries







5.12kWh per Battery module 6000+ Life Cycles 90% DoD for longer lifespan

**IP65** Weatherproof Rating 10 year Warranty

Designed for Expansion Anytime

The Flow System uses LiFePO4 (Lithium Iron Phosphate) Batteries, a cutting-edge battery chemistry known for its exceptional safety, stability, and long cycle life. Unlike traditional lithium-ion batteries, LiFePO4 cells are more thermally and chemically stable, meaning they're far less prone to overheating, combustion, or degradation over time.

#### Long Lifespan

Sync Energy Flow batteries last for 6000+ cycles, translating to well over a decade of daily use with minimal capacity loss, making them a smarter, more sustainable investment.

#### **Fire Suppression Technology**

Non-toxic and thermally stable, Sync Energy Flow batteries resist overheating and are inherently fire-resistant, even under stress or high temperatures, with fire suppression built in for added peace of mind.

#### High Depth of Discharge

With a high Depth of Discharge (DoD) of up to 90%, you get more usable energy per charge without compromising battery health.

#### **Efficient Operation**

With integrated heating control to ensure the batteries deliver consistent voltage and performance across its cycle life, tested in temperatures between -20 and 60 degrees, ensuring smooth energy delivery.

#### **Eco-conscious Choice**

Free from cobalt and heavy metals, LiFePO4 is the environmentally responsible choice in modern energy storage.

## Sync Energy | Installation Features



#### Plug and Play **Battery Connections**

Designed for speed and simplicity, our plug-and-play battery connectors allow each module to link seamlessly, no complex wiring or configuration required.

Whether stacking multiple units or expanding your system over time, installation is hassle-free.





#### Easy Access Wiring Area

A hinged access door reveals a dedicated space for PV isolators and power connections.

With generous working room and thoughtful layout, it's designed to support a neat, professional finish, keeping all wiring discreetly hidden from view once installation is complete.



#### Adjustable **Mounting Base**

The mounting base features four adjustable feet, making it easy to achieve a perfectly level installation, even on uneven floors.

Designed to ensure every installation looks clean, aligned, and professionally finished.



#### Hybrid Inverter + Modular Battery Storage

Available in pre-configured kits with a choice of inverter size (3.6kW or 6kW) and flexible battery options (available with 1, 2, or 3 batteries), making it easy to select the right solution for all property types and energy needs.

#### Faster Installation

All components are designed to work together seamlessly, reducing installation time, complexity, and on-site set up.

#### Scalable & Flexible

5.12kW Modular battery design allows homeowners to start with the capacity they need today, with the option to expand storage in future without changing the inverter.

#### Optimised for Smarter Energy Use

The All in One system is the ideal solution whether the goal is to store solar-generated energy or maximise off-peak grid energy, reducing reliance on expensive peak-time tariffs.













# All in One Systems

A complete home energy management system combining a Hybrid Inverter and modular Battery Storage.

The System enables energy storage generated from either Solar Panels and/or The Grid.

Designed to operate both off-grid and on-grid with full grid import/export capability.















PRODUCT CODE	SEF1A36G1	SEF1A60G1	SEF1A36G2	SEF1A60G2	SEF1A36G3	SEF1A60G3
PRODUCT DESCRIPTION	All In One 3.6kW + 1 Battery	All In One 6kW + 1 Battery	All In One 3.6kW + 2 Batteries	All In One 6kW + 2 Batteries	All In One 3.6kW + 3 Batteries	All In One 6kW + 3 Batteries
INVERTER POWER (kW)	3.6	6	3.6	6	3.6	6
NUMBER OF BATTERY MODULES	1		2		3	
BATTERY CAPACITY (kW)	5.12		10.24		15	.4
WEIGHT (kg)	99.6		150.7		201.8	
DIMENSIONS (WITH FLOOR STAND) (H X W X D MM)	979 x 621 x 245		1288 x 621 x 245		1597 x 621 x 245	
MOUNTING OPTIONS	Wall Mounting (Inverter Only) or Floor Stand					

# 

- All in one stackable design: Hybrid inverter and battery storage
- Scalable, modular battery storage up to 35.84kW
- PV ready, solar systems can be added at any time
- Integrated fire suppression, for safety and peace of mind
- Integrated heating below 5°C
- Integrated AC and DC surge protection
- Remote monitoring and control via Sync Energy app
- LiFePo4 batteries, with 90% depth of discharge
- IP65 rated for outdoor use
- IK10 rated
- 10 year warranty

# Hybrid Inverters

Available in 3.6kW or 6kW, our Hybrid Inverters can be installed as a solar-only solution, enabling real-time use of solar energy and export of excess generation back to the grid. Battery storage can be added later as energy needs grow.

Designed for on-grid operation, with the ability to add Battery Storage in the future.



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PRODUCT CODE	SEFHI36G	SEFHI60G	
PRODUCT DESCRIPTION	Hybrid Inverter 3.6kW	Hybrid Inverter 6kW	
INVERTER POWER (KW)	3.6	6	
PV RATED	150%		
BATTERY CAPACITY (kW)	5.	12	
WEIGHT (kg)	43		
DIMENSIONS (H X W X D MM)	600 x 621 x 245		
MOUNTING OPTIONS	Wall Mounting or Floor Stand		

- Stackable or wall mountable design
- PV ready, solar systems can be added at any time
- Integrated AC and DC surge protection
- 150% PV oversupply capability
- Remote monitoring & control via Sync Energy app
- Integrated PV Isolation, DC Battery and AC MCBs
- IP65 rated for outdoor use
- IK10 rated
- 10 year warranty

# Modular Battery Storage

Each 5.12kW modular battery is designed for easy stacking, with plug and play connectors and configurations available from 1 to 4 modules, ideal for storing excess solar energy or maximising off-peak electricity rates.

Thanks to the expandable design of the Sync Energy Flow system, additional Batteries can be added to either your stand alone Hybrid Inverter or your All-in-One system, to offer maximum flexibility as energy needs grow.



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PRODUCT CODE	SEFB512G1	SEFB512G2	SEFB512G3	SEFB512G4
PRODUCT DESCRIPTION	1 Battery 5.1kW	2 Batteries 10.2kW	3 Batteries 15.4kW	4 Batteries 20.5kW
INVERTER POWER (KW)	3.6	3.6	3.6	3.6
NUMBER OF BATTERY MODULES	1	2	3	3
BATTERY CAPACITY (kW)	5.12	10.24	15.4	20.5
WEIGHT (kg)	51.1	102.2	153.3	204.4
DIMENSIONS (H X W X D MM)	454 x 600 x 245	763 x 600 x 245	1072 x 600 x 245	1381 x 600 x 245
MOUNTING OPTIONS	Floor Standing			

- Easy to use stackable
  design
- Scalable, modular battery storage up to 35.84kW
- Integrated fire suppression, for safety and peace of mind
- Remote monitoring and control via Sync Energy app
- LiFePo4 batteries, with 90% depth of discharge
- Integrated heating system for charging below 5°C
- IP65 rated for outdoor use
- IK10 rated
- 10 year warranty



Our solar power diverter helps you get the most out of your solar energy by redirecting excess generation to your home's appliances, such as water heaters, electrical heating systems or EV chargers.

A simple, smart way to increase self-consumption and reduce reliance on imported energy.









PRODUCT CODE	SEFSW
PRODUCT DESCRIPTION	Solar Power Diverter
NUMBER OF OUTPUTS	2
MAX OUTPUT	16A
POWER CONTROL	0 to 10A controllable output, 16A bypass
TERMINALS	Push fit lever terminals
DIMENSIONS (H X W X D MM)	194 x 240 x 75
MOUNTING OPTIONS	Wall mount bracket, compatible to standard single gang back box

- 16Amp twin output
- Simple installation, with first fix bracket suitable for wall or single gang back box
- Allows you to boost, schedule and set time limits
- Easily set preference for hot water, battery or EV charger
- Remote monitoring and control via Sync Energy app
- True AC wave power control, adjustable power control
- Compatible with PT100 Temperature probes for target temperature control
- 3 year warranty

# Sync Energy | Link Our Smallest EV Charger

#### Ultra-Slim, Discreet Design

At just 37mm when recessed, Link gives you a clean, architectural finish without compromise on function or performance.

**Retrofit-table & Easy to install** Whether surface-mounted or recessed, Link is designed to be easy to install. Retrofit-ready with no specialist tools needed.

#### Advanced protection as standard

With integrated SPD, 40A MCB and Type A RCD, Link meets the highest safety standards, with no need for extra upstream devices.

Versatile Mounting Options Choose between recessed or surface-mounted to fit your project's needs.

#### Smart Control

Easily manage charging via the Sync Energy app with OCPP 1.6J connectivity.





# **Sync Energy** | Link Our Smallest EV Charger

Say goodbye to bulky, obtrusive EV chargers. Link is a wall-integrated EV charging solution that combines sleek, architectural design with robust, reliable performance.

At just 37mm when recessed, Link delivers an ultra-slim profile without compromising on power or protection. Whether surface-mounted or recessed, installation is quick and retrofit-friendly with no specialist tools required.







PRODUCT CODE	EVLR7MS	EVLR7MSG	EVLS7MS	EVLS7MSG
PRODUCT DESCRIPTION	Link charger recessed 7.4kW silver with metal control box and Wi-Fi connection	Link charger recessed 7.4kW silver with metal control box, 4G and Wi-Fi connection	Link charger surface 7.4kW silver with metal control box and Wi-Fi connection	Link charger surface 7kW grey with metal control box, 4G and Wi-Fi connection
OUTPUT (kW)	7.4			
SOCKET TYPE	Туре 2			
CONNECTIVITY	Wi-Fi 4G and Wi-Fi Wi-Fi		4G and Wi-Fi	
PROTECTIVE DEVICES	Type 2 SPD, 40A B Curve MCB, 40A Type A RCD			
DIMENSIONS (H X W X D MM)	176 x 176 x 37 176 x 176 x 122			76 x 122
MOUNTING OPTIONS	Recessed Surface mounted			mounted

- Ultra-Slim 37mm profile
- 7.4kW type 2
  socketed output
- Patented design for compact socket outlet and separated control box
- Suitable for new build properties or retrofit
- Easy to install
- Integrated open PEN conductor protection, no earth rod required
- Remote monitoring and control via Sync Energy app
- OCPP 1.6J connectivity, free lifetime over-the-air updates
- Auto solar charge
- Tariff sense energy
  management feature
- Models available with Wi-Fi/LAN/4G+RFID
- IP65 rated for outdoor use
- IK10 rated
- 3 year warranty

# Sync Energy | Wall Charger 2 Socketed & Tethered

#### Compact, Modern Design

A clean, compact design available in tethered or socketed options. The tethered option is thoughtfully designed to keep the cable neatly organised and the charge plug/gun holstered neatly in the centre.

#### Customisable Faceplates

Choose from nine additional interchangeable faceplates to match your taste and make Wall Charger 2 truly your own.

Advanced protection as standard Integrated open PEN conductor protection, Type A RCD, and 6mA DC detection for complete peace of mind.

#### Hassle-Free Installation

Designed with multiple cable entry points and no earth rod required, for a quick and straightforward setup.

**Smart Control** Easily manage charging via the Sync Energy App with OCPP 1.6J connectivity.





# Sync Energy | Wall Charger 2 Socketed & Tethered

A compact and robust EV charger available in 7.4kW Socketed or Tethered options with interchangeable faceplates available in 9 additional finishes so you can make your wall charger 2 your own and built-in smart control via the Sync Energy app.

Simple to install, Wall Charger 2 features integrated safety protection with no need for an earth rod.









PRODUCT CODE	EVWC2S7G	EVWC2S7GG	EVWC2S7GGR	EVWC2T7G	EVWC2T7GG
PRODUCT DESCRIPTION	Single phase socketed			Single phase tethered	
OUTPUT (kW)	7.4			7.4	
SOCKET TYPE	Type 2 with autolock			Type 2 with 7.5m cable	
CONNECTIVITY	WI-FI / LAN WI-FI / LAN / 4G		WI-FI / LAN / 4G + RFID	WI-FI / LAN	WI-FI / LAN / 4G
WEIGHT (kg)	2.39 2.39 2.39		2.39	4.32	4.32
DIMENSIONS (H X W X D MM)	305 x 201 x 115			305 x 2	01 x 115
MOUNTING OPTIONS	Surface mounted			Surface	mounted

- Available as type
  2 socketed and
  tethered
- Dynamic charging, up to 7.4kW (32A)
- Interchangeable faceplates, 9 additional finishes
- Easy to install
- Integrated open PEN conductor protection, no earth rod required
- Remote monitoring and control via Sync Energy app
- OCPP 1.6J connectivity, free lifetime over-the-air updates
- Auto solar charge
- Tariff sense energy
  management feature
- Models available with Wi-Fi/LAN/4G+RFID
- IP65 rated for outdoor use
- IK10 rated
- 3 year warranty

# **Sync Energy App** Whole Home Connectivity

The Sync Energy App brings your entire home energy system into one intuitive App, giving you full control over how and when you use power whether from your solar panels or the grid.

Whether you're storing solar energy, managing your EV charging, or directing excess solar generated to heat your water, the app makes it easy to take charge of your energy use, all from your smartphone.

With Sync Energy, there's no need for multiple third-party apps, everything is fully integrated into one simple, smart solution.



SCAN TO DOWNLOAD APP







#### Intuitive Dashboard

The Sync Energy App features a clean, easy-to-read dashboard that provides a real-time overview of your home's energy flow, all in one place.

Whether you're generating solar, drawing from the grid, charging your EV, or storing energy in your battery system, the dashboard presents it all in a clear, visual layout.

It's designed to be simple to understand and effortless to navigate, helping you make confident, informed decisions about how you use and manage energy in your home.

#### Complete Control of Your Energy Usage

The Sync Energy App makes it easy to stay in control, you can:

- Start, stop, or schedule EV charging
- Monitor and manage your battery storage
- · Divert excess solar energy to where it's most useful
- Automate charging during low-cost, off-peak periods

Whether you're home or away, you're always connected and in control.

#### Tariff Sense

Tariff Sense connects to your personal energy tariff, giving you real-time insights and control over your charging costs, highlighting the savings you're making.

By combining Tariff Sense with intelligent scheduling, you can ensure your EV or battery storage charges when energy costs are low and off-peak, helping to reduce your reliance on the expensive peak time rates.



# Sync Energy | Installer App Commissioning & Handover

eauc(\)

System Test

DEVICE ID

SF9111S9999

System Information

1402 W

Refresh

Basic

Start / Re-te

No batteries

Grid voltage (AC)

CT Clamp Current

SUNCIO

Network Provisioning

SF9111S9999

A single app with a smooth handover from the installer to the enduser ensures that you'll be up and running in no time.

#### Easy setup and commissioning

A clean, compact design available in tethered or socketed options. The tethered option is thoughtfully designed to keep the cable neatly organised and the charge plug/gun holstered neatly in the centre.

#### Easily transfer to the customer

A clean, compact design available in tethered or socketed options. The tethered option is thoughtfully designed to keep the cable neatly organised and the charge plug/gun holstered neatly in the centre.

#### Keep track of installation history

A clean, compact design available in tethered or socketed options. The tethered option is thoughtfully designed to keep the cable neatly organised and the charge plug/gun holstered neatly in the centre.

# Sync Energy | Accessories

#### Interchangeable Front Fascias

- Choose from a range of 9 colours
- Easy to fit DIY swap
- Universal fit for socketed or tethered
  Wall Charger 2 chargers

CODE :	COLOUR :
EVWC2TMMS	High Impact Metallic Silver
EVWC2TPSR	Signal Red
EVWC2TPRG	Racing Green
EVWC2TPDB	Deep Blue
EVWC2TPTW	Traffic White
EVWC2TRJB	Jet Black
EVWC2TPBG	Blue Grey
EVWC2TPSG	Signal Grey
EVWC2TPSY	Sandstone Yellow
EVWC2TPAG	Anthracite Grey (as standard)





#### **Charging Cable Carry Case**

- A lightweight and practical storage option to charging cables clean and neat whilst not in use
- Suitable for all types of EV charging cables

CODE :	TYPE :
EVCASE	Carry case for EV charging cables



#### **IP66 External Consumer Units**

- Quick and easy installation
- Type 2 SPD included
- IP66 rated protection

CODE :	TYPE :
CP5R4PS1G	IP66 External EV Circuit Protection, RCD & MCB
CP5MRDPS1G	IP66 External EV Circuit Protection, Main Switch & RCBO
CP5MPS1G	IP66 External EV Circuit Protection, Main Switch & MCB



#### **EV Charging Cables**

- · Robust construction with end protectors
- Suitable for 16 & 32A sockets
- Weather-resistant IP65 when connected to vehicle, IP55 when not in use and end-caps applied



CODE :	TYPE :	LENGTH :
EVC22325SL	Type 2	5 Metres
EVC22328SL	Type 2	8 Metres
EVC223210SL	Type 2	10 Metres

#### Mode 2 EV Charging Cables

- Provides safe and intelligent portable EV charging\*
- UK 3 pin plug to Type 2 EV plug
- Charges up-to 10A, 2.4kW (Mode 2)
  up to 8 miles per charging hour
- IP65 rated (control box) IP65 when connected to vehicle, IP55 when not in use and end-caps applied

CODE :	TYPE :	LENGTH :
EVCM22135	UK 3-Pin - Type 2	5 Metres
EVCM221310	UK 3-Pin - Type 2	10 Metres



### **BG Electrical** Recommended Installation Accessories

#### External IP65

- Quick and easy installation
- Type 2 SPD included
- 5 Module, IP65 rated protection
- 20mm knockouts on all sides drillable to 32mm
- Available in White or Grey

CODE :	TYPE :	COLOUR
CFEV5A	40A 30mA Type A RCD - 40A MCB	Grey
CFEV5AW	40A 30mA Type A RCD - 40A MCB	White
CFEV6	100A Main Switch - 40A MCB	Grey
CFEV6W	100A Main Switch - 40A MCB	White
CFEV5RDA	40A 30mA Type A RCBO Double Pole - 100A Main Switch	Grey
CFEV5RDAW	40A 30mA Type A RCBO Double Pole - 100A Main Switch	White

#### Internal IP20

- Metal construction, powder coated finish
- Type 2 SPD included
- 5-module enclosure

CODE :	TYPE :	COLOUR :
CFUEV5A	40A 30mA Type A RCD - 40A MCB	White
CFUEV5RDA	40A 30mA Type A RCBO Double Pole - 100A Main Switch	White
CFUEV6	100A Main Switch - 40A MCB	White



#### **Bidirectional RCBO**

- Provides compliance to BS7671
- 30mA
- 6kA
- Positive contact status indicator
- Device capable of being locked in 'off' position
  using a device lock

#### Type A

B Curve :	C Curve :	Rating :	Modules :
CUCRB6DPA	CUCRC6DPA	6A	1
CUCRB10DPA	CUCRC10DPA	10A	1
CUCRB16DPA	CUCRC16DPA	16A	1
CUCRB20DPA	CUCRC20DPA	20A	1
CUCRB25DPA	CUCRC25DPA	25A	1
CUCRB32DPA	CUCRC32DPA	32A	1
CUCRB40DPA	CUCRC40DPA	40A	1



#### Type F

C Curve :	Rating :	Modules :
CUCRC16F	16A	2
CUCRC20F	20A	2
CUCRC25F	25A	2
CUCRC32F	32A	2
CUCRC40F	40A	2







# PROTECTION

#### AC Rotary Isolators

- Plastic construction
- IP65 rated protection
- Red/Yellow padlockable handle



 Easy cable access via M20 knockouts (top and bottom)

2 POLE :	4 POLE :	TYPE :
-	CPRSD416	16A Rotary Isolator IP65
CPRSD220	CPRSD420	20A Rotary Isolator IP65
-	CPRSD425	25A Rotary Isolator IP65
CPRSD232	CPRSD432	32A Rotary Isolator IP65
CPRSD240	CPRSD440	40A Rotary Isolator IP65
CPRSD263	CPRSD463	63A Rotary Isolator IP65
-	CPRSD4100	100A Rotary Isolator IP65

#### **DC Rotary Isolators**

- Plastic construction
- IP66 rated protection
- Isolation of 1 or 2 PV strings
- Black padlockable handle
- Designed as an one size enclosure; 4P (4P connected as 2P jumper links are included)

4 POLE :	TYPE :
CPDC425	25A Rotary Isolator IP66
CPDC432	32A Rotary Isolator IP66



# Designed for Solar Success

With the rising demand for solar energy, **BG Electrical** is at the forefront, offering circuit protection to support the seamless integration of **Photovoltaic (PV) Systems** into residential electrical setups. Our **BG Circuit Protection** devices and enclosures ensure safe, compliant, and efficient integration of both grid-supplied and solar-generated power, making them an ideal choice for solar PV projects of any scale.

Whether it's for a new installation or an upgrade, BG Electricals' solutions empower contractors to handle PV-generated electricity efficiently, ensuring regulatory compliance.





4P DC25A IP66

For more information scan QR code



# Sync Energy | Support and Services

Whether it's a new install or expanding on an existing network, we are here to help. Our dedicated nationwide EV Experts are on hand to guide and assist you, building the right charging infrastructure for your premises. Speak with your dedicated EV Team for more information:

#### **Pre-Install Support**

Onsite – The Sync Energy projects Team can meet with you, building contractors, specifiers and key Stakeholders onsite helping design the perfect solution for you.

Remote – If you need help with a drawing, or have any questions about install or commissioning, the team is always on hand; either by phone or email, we are here to help.

#### **During Install Support**

The consistent focus of all Sync Energy product solutions is providing ease of installation.

With extensive experience in manufacturing and designing electrical products, we know ease and speed of installation is key and have therefore designed our range to be super easy to install.

Once installed, commissioning can be done simply with a smart phone through a dedicated installer app.

Full instruction manuals and easy to follow steps can be found as a back-up, by scanning the eco-friendly inbox

#### manual or by visiting our website.

In addition to this, we also have a dedicated UK Technical Support team, contactable by phone or email, who will be happy to assist you at any point of your installation.

#### After Install Support

We don't believe support stops at installation. All of our products come with a easy on-site warranty.

Providing the products are online, the dedicated team can remotely dial into your chargers and help diagnose and resolve any issue. Should this not be possible we will send out a Warranty Engineer to come to site and carry out any repairs/replacements at no expense to you.\*

\*Standard warranty terms apply. See sync.energy.com for details.

#### UK Technical Support

Tel : 03300 249279 Email : support@sync.energy

#### Scan to view additional brochures



PROCHARGER

SUNC

Commercial EV Charging Solutions



Sync () Powered by M O N T A.

Commercial EV Management

# Technical Glossary

#### Home Energy Management System (HEMS)

An integrated solution for monitoring and controlling energy use across the home, including solar, battery storage, EV charging, and appliances.

#### Hybrid Inverter

A device that manages power from solar panels, the electrical grid, and batteries, allowing simultaneous charging, usage, and grid export.

#### **Battery Storage**

Stores excess solar or off-peak grid electricity for later use, helping reduce reliance on the grid during peak hours.

#### $LiFePO_4$ (Lithium Iron Phosphate)

A highly stable and safe type of lithium battery with a long lifespan and excellent thermal stability, used in Sync Energy storage solutions.

#### DoD (Depth of Discharge)

The percentage of a battery's capacity that can be used. A 90% DoD means 90% of the battery's total capacity can be used regularly without harming its lifespan.

#### PV (Photovoltaic)

Refers to solar energy systems that convert sunlight into electricity.

#### Solar Array

A group of solar panels installed together to capture sunlight and generate electricity for home use.

#### **Tariff Sense**

A smart feature of the Sync Energy App that tracks your energy tariff to optimise charging or battery use during lower-cost periods.

#### **IP65** Rating

Protects equipment from water jets and dust.

#### IK10 rating

Indicates high impact resistance, ideal for outdoor installations.

#### **Plug-and-Play Connections**

Preconfigured connectors that allow quick, simple installation without complex wiring.

#### EV Charger (Type 2 Socket)

A charging point for electric vehicles, compatible with most modern EVs in the UK and EU.

#### Surge Protection Device (SPD)

Protects your electrical system from voltage spikes, commonly included in Sync Energy products for safety.

#### **Open PEN Protection**

A built-in safety feature in EV chargers that protects against electric shock without needing an earth rod.

#### OCPP 1.6J

An open communication standard for EV chargers, ensuring compatibility with smart apps and remote software updates.

#### All-in-One System

A pre-configured unit combining a hybrid inverter and battery storage for a space-saving and simplified energy management setup.

#### Solar Power Diverter

Redirects excess solar energy to appliances like hot water tanks or EV chargers to maximise self-consumption.

#### Commissioning

The process of setting up and activating a system for first use, typically completed by installers using the Sync Installer App.

#### **Energy Tariff**

The rate a household pays for electricity, which can be fixed, variable, or time-of-use (based on when the energy is used).

#### Grid Import/Export

Import: Drawing electricity from the national grid.

Export: Sending excess generated electricity (e.g. from solar) back to the grid, often in return for payment or credits.

#### Peak & Off-Peak Tariffs

Time-of-use energy pricing where electricity is more expensive during high-demand (peak) times and cheaper during low-demand (offpeak) hours.



#### UK

#### HEAD OFFICE

General : commercial@sync.energy Orders : orders@sync.energy Support : support@sync.energy

Luceco plc, Caparo House 103 Baker Street, London England, W1U 6LN

#### DISTRIBUTION CENTRE

Tel : +44 (0) 1952 238 100 Email : uk\_sales@luceco.com

Luceco plc Luceco Distribution Centre Stafford Park 1, Telford Shropshire, England, TF3 3B

#### EUROPE

IRELAND Email : sales@luceco.ie

FRANCE Email : fr\_sales@luceco.com

ITALY Email : it\_sales@luceco.com

SPAIN Tel : +34 93 829 55 75 Email : es\_sales@luceco.com

Nexus Industries LTD C/ Bobinadora 1-5 08302 Mataró Barcelona (SPAIN)

#### MIDDLE EAST & AFRICA

Tel : +971 4 609 1867 Email : mea\_sales@luceco.com Luceco Middle East FZCO Bldg. 5EB, Office 342 PO Box 371128, DAFZA Dubai, UAE

#### ASIA PACIFIC

#### JIAXING

Tel : +86 (0) 573 8357 0200 Email : asia\_sales@luceco.com

No 1438, Jiachuang Road Xiuzhou Industrial Park, Jiaxing Zhejiang, China, P.C. 314031

HONG KONG Email : hk\_sales@luceco.com

#### **UNITED STATES**

Email : us\_sales@luceco.com 2671 Technology Drive, Suite 112, Louisville, KY 40299, United States

#### **MEXICO & LATIN AMERICA**

Tel : +52 (81) 5000 9437 Email : ventas@luceco.com Luceco México AV Lāzano Cārdenas #318 int 201 Col Real San Agustin San Pedro Garza Garcia N.L. Mexico CP 66278



#### Tel : 03300 249279 Email : support@sync.energy

Lines open Monday to Thursday 8.30am to 5pm, Friday 8.30am to 4pm with answer-phone service outside these hours