YESSS
RENEWABLES

Electric Vehicle Charging, Solar & Battery Storage Solutions

Edition 2

About YESSS Renewables

YESSS Renewables offer market leading services in the electric vehicle charging and renewable energy sectors. The Division combines a wealth of experience meaning we are able to provide you with full support from your earliest inquiry through to installation, ongoing maintenance and future bolstering of infrastructure as the number of EV's on the road increases.

Quality Brands

SEVADIS wallbox easee SYNC EV eris EV PROJECT EV pod POINT CTEK TIS osily energy JinKO Solar myenergi evwired Doncaster Cables Ohme SUN SYNK

We Can Help You With:

- Design and specification services for all aspects of your EV charging requirements
- A wide range of products from 16 leading manufacturers
- Charging speeds from 3.6kW AC up to 350kW DC
- Load management, back office tracking, user authentication and payment options all readily available
- Stocked product for fast and efficient delivery/install
- All related ancillaries to provide a "one stop shop" for installation and maintenance
- Solar PV design, consultancy and optional install services
- Wind energy design, consultancy and optional install services
- Smart energy measurement tools to enable tracking and live monitoring of your consumption data
- Battery storage to store generated power on-site and control your energy requirements in-house
- Work-flow management and install allocation software to track every element of your installations and rollouts
- OZEV software which enables installers to focus on the installation and not be marred by difficult administrative burdens as well as removing paperwork burdens from the corporate for fleet rollouts

YESSS RENEWABLES

YESSS! We Recycle...

YESSS has been committed to reducing the environmental impact since 2012 by ensuring the life cycle of its products. Recycling terminals for batteries and lamps are available at our points of sale to ensure that this commitment is respected.

Additionally, when a customer purchases a product we recycle the old product for free. YESSS collect, reuse and recycle thousands of tonnes of old electrical equipment each year, helping to reduce impact on the planet and boost the economy by creating jobs such as processing. We are proud to be working with the National Recycle Your Electricals campaign.

Contents

EV Glossary

Slow charging
A slow charger is regarded as anything up to 3kW, and is generally a Mode 2 charger - i.e sockets not specifically designed for the charging of electric vehicles.

Fast charging
Classed as anything between 3.6kW and 22kW, generally capable of charging a vehicle in up to four hours, but predominantly used as an overnight charge. While not as fast as rapid chargers – and about four-times slower – they are the most common type of charger in the UK right now. These are ideal for home and business use.

Rapid charging
The fastest type of charger on the market, available in DC only. With charging power ratings between 25kW all the way up to 350kW. Both CCS and CHAdeMO connectors have standard outputs between 43kW to 50kW of power, which means they're able to charge 80% of a battery in 30 minutes to an hour. These chargers are usually found at service stations, forecourts and supermarkets. They're designed to be a short stay top up point for use on longer journeys or where are large top up is required over a short space of time.

Tethered
Meaning the unit comes with the charging lead attached. This increases convenience and creates a faster way of connecting your car. However it can limit the usability of the charger to vehicles who do not use the same plug type.

Socketed
All charging sockets are classified as Type 2. This doesn't mean they don't work with Type 1 vehicles, but instead are a universal plug into which all AC charging leads will connect. As each lead is either Type 2 to Type 2 or Type 1 to Type 2. These are most common in workplaces and public chargers to ensure all vehicles can access them.

OZEV
Office for Zero Emission Vehicles – the DVLA department who run the grant schemes for electric vehicle charging installations.

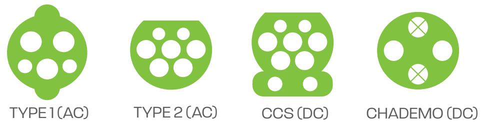
EVHS
Electric Vehicle Homecharge Scheme – the domestic grant scheme.

WCS
Workplace Charging Scheme – the workplace grant scheme.

OCPP
Open Charge Point Protocol. This means the charger can have different back office software running on it, enabling clients to choose their own back office without being tied to a manufacturer system and allowing multiple manufacturers chargers work on the same back office, providing they all adhere to the same standard of OCPP (most common is 1.6) and the OCPP back office provider has integrated their software with that charger.

PEN Fault Detection
A feature of chargers which is fully described in the IET 18.1 Edition regulations, namely subsection BS7671 which enables chargers containing PEN detection to be installed without the need for an earth electrode (earth rod or spike) providing they meet the requirements of BS7671 and are installed in line with the manufacturer guidance on the usage of this technology.

Plug Type



Charging Speeds

CHARGER POWER RATING	AVERAGE RANGE PER HOUR OF CHARGE
3.6kW	10 miles
7.4kW	25 miles
11kW	40 miles
22kW	80 miles
25kW	90 miles
50kW	180 miles
150kW	Up to 200 miles in 30 mins

Workplace EV Charging grants

Government Funding for Small Businesses & Landlords

Office for Zero
Emission Vehicles

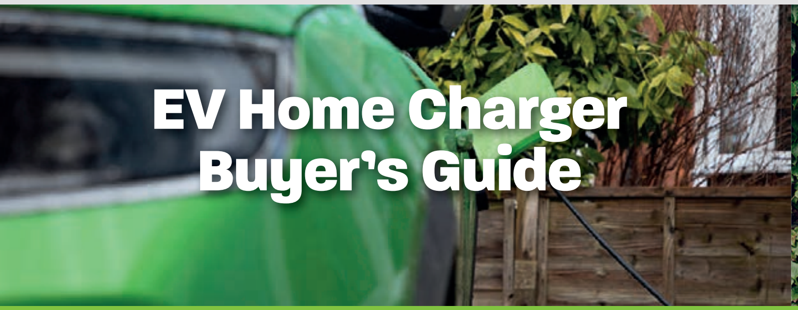
From April 2022

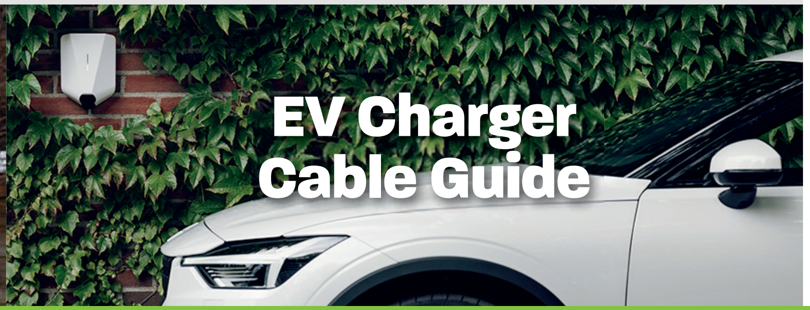
Significant changes for the eligibility criteria for the Workplace Charging Scheme (WCS) and Homecharge Grant Scheme (EVHS) schemes came into place in April 2022. The new criteria has implications for homeowners, landlords and small business owners, especially in the accommodation sector.

- From 1 April the WCS will be available to B&Bs, small accommodation businesses, SMEs, charities and owners of commercially let premises. For example, the owner of a holiday cottage can claim up to £350 off the cost of a charging socket, and it can be used by guests staying on the premises; previously they could only claim if the charge point was being used by their own staff.
- Landlords, social housing providers and owners of apartment blocks can also now claim an EVHS grant. This will take away the responsibility for installing a chargepoint in an apartment away from individual flat owners.
- The Homecharge Grant will cease to be available for house owners with off-street parking it can still be claimed by people who rent their homes or those who live in flats.

Up to £350 per available towards the installation of commercial EV charge points for workplaces

Browse our helpful EV guides online at **yesss.co.uk/topic/ev**





Budget 2021 - Super-deduction

For expenditure incurred from 1 April 2021 until the end of March 2023, companies can claim 130% capital allowances on qualifying plant and machinery investments.

Under the super-deduction, for every pound a company invests, their taxes are cut by up to 25p. This change makes the UK's capital allowance regime more internationally competitive, lifting the net present value of our plant and machinery allowances from 30th in the OECD to 1st.

The new Capital Allowances offer

As a result of measures announced at this Budget, businesses will now benefit from four significant capital allowance measures:

- The super-deduction – which offers 130% first-year relief on qualifying main rate plant and machinery investments until 31 March 2023 for companies.
- The 50% first-year allowance (FYA) for special rate (including long life) assets until 31st March 2023 for companies.
- Annual Investment Allowance (AIA) providing 100% relief for plant and machinery investments up to its highest ever 1 million threshold, until 31 December 2021. Within Freeport tax sites, companies can access new enhanced Capital allowances (ECA+) and companies, individuals and partnerships can benefit from an increased level of Structures and Buildings Allowance (SBA+) for investments until 30 September 2026.

Why is the government Introducing a super-deduction?

Since the Covid-19 pandemic, existing low levels of business investment have fallen, with a reduction of 11.6% between Q3 2019 and Q3 2020.

Much of the UK's productivity gap with competitors is attributable to our historically low levels of business investment compared to our peers. Weak business investment has played a significant role in the slowdown of productivity growth since 2008. Making capital allowances more generous works to stimulate business investment. As a result, these measures can promote economic growth and counter business cycles.

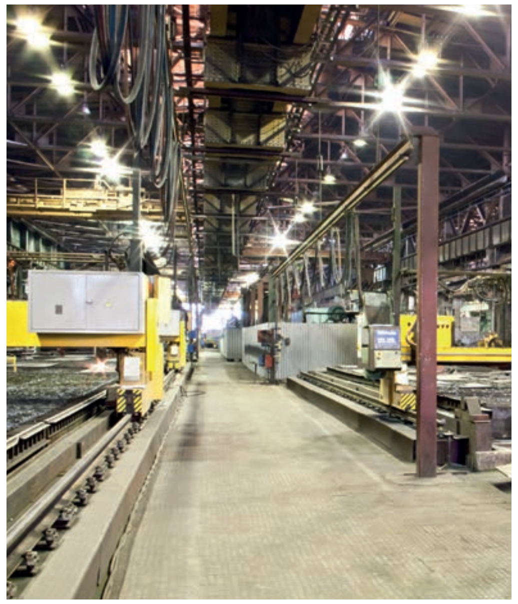
The super-deduction will give companies a strong incentive to make additional investments, and to bring planned investments forward. Capital allowances let tax payers write off the cost of certain capital assets against taxable income. They take the place of accounting depreciation, which is not normally tax deductible. Businesses deduct capital allowances when computing their taxable profits. In translating its accounting profits into taxable profits, a business is usually required to 'add back' any depreciation, but can instead deduct capital allowances. Level of Structures & Buildings Allowance (SBA+) for investments until 30 September 2026.

The two main types of capital allowances are:

Writing Down Allowances (WDAs) for plant & machinery - covering most capital equipment used in a trade. Structures and Buildings Allowances (SBA) - covering the construction and renovation of non-residential structures and buildings. The 130% super-deduction and 50% first-year allowance are generous brand new capital allowances for investments in plant and machinery assets. Both will allow investing companies to lower their corporation tax bills.

What are capital allowances and What is plant & machinery? Most tangible capital assets used in the course of a business are considered plant and machinery for the purposes of claiming capital allowances. There is not a exhaustive list of plant and machinery assets. The kinds of assets which may qualify for either the super-duction or the 50% FYA include, but are not limited to:

- **Electric vehicle charge points**
- **Solar panels**
- Computer equipment and servers
- Tractors, lorries and vans
- Ladders, drills and cranes
- Office chairs and desks
- Refrigeration units
- Compressors
- Foundry equipment



Domestic Charging

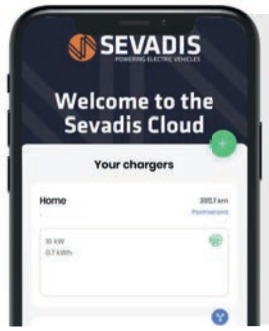
YESSS EV have access to a range of domestic charging points from leading manufacturers with a selection of technology to make both installation and user experience more seamless.

SEVADIS POWERING ELECTRIC VEHICLES

MaxiCharger

- 7.4kW – 22kW charging speeds
- Built-in PME fault detection
- Single-phase and three-phase connection
- OCPP 1.6 compliant
- Smart app or cloud management software
- Dynamic load balancing and active load management options
- Wall and floor mounted solutions
- Connector Type: Type 2
- 187 x 336 x 85mm (W x H x D)
- IP Rating: IP54

PART NO.	POWER	DESCRIPTION
EVAUTDSSEVO-BLK	7.4kW	Smart Online Socket
EVAUTDS4GSEVO	7.4kW	Smart 4G Socket
EVAUTDTSEV	7.4kW	Domestic Tethered
EVAUTCS4GSEV	11-22kW	3 Phase Smart 4G



Sevadis Cloud

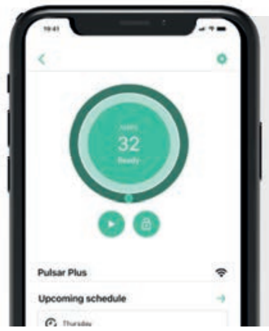
- Find available Sevadis EV charge points
- Pay for charging
- Remotely activate charging sessions and monitor usage by time and cost.

GET IT ON Google Play | Download on the App Store

wallbox™

Pulsar Max

- Up to 22kW of power for fast EV charging
- Lightweight at just 1.3kg
- IP54/IK10 for indoor and outdoor installation
- App connected via Bluetooth and Wi-Fi
- Compatible with all Wallbox Energy Management Solutions, including solar EV charging, dynamic, load balancing, and dynamic power sharing
- 198 x 201 x 99mm
- IK10/IP54 rated



Wallbox App

- Monitor the status of your charger and control it from anywhere via your smart devices
- Get energy use and spending statistics in real-time.
- Secure your charger with remote locking and unlocking and monitor usage by time and cost.

GET IT ON Google Play | Download on the App Store

PART NO.	POWER	DESCRIPTION	COLOUR
PLP2-0-1-2-F-001	7.4kW	5m, Type 1 tethered cable	White
PLP2-0-1-2-F-002	7.4kW	5m, Type 1 tethered cable	Black
PLP2-0-2-2-F-001	7.4kW	5m, Type 2 tethered cable	White
PLP2-0-2-2-F-002	7.4kW	5m, Type 2 tethered cable	Black
PLP2-M-2-2-F-001	7.4kW	7m, Type 2 tethered cable	White
PLP2-M-2-2-F-002	7.4kW	7m, Type 2 tethered cable	Black

**OPTIONAL COLOURS AVAILABLE:
ANTHRACITE GREY, DARK BLUE, RED, WHITE**

easee®

One Home Charging Unit

- Integrated open PEN conductor protection, i.e., no need for earth rod
- Reduced cost and time to install
- Fully dynamic charging power 1.4–7.4kW
- Load balancing of up to 3 units per fuse by integrated wireless communication
- Automatic queuing system
- Offline proof load balancing
- Integrated eSIM in each box, lifetime free subscription
- Possibility of Wi-Fi connection
- Permanent locking of the Type 2 cable
- Integrated earth fault protection (RCD)
- Connector Type: Type 2
- 193 x 256 x 106mm (W x H x D)
- IP Rating: IP54

PART NO.
10512

Easee App

- Check the status of the charger
- Adjust the charging power
- Schedule a charging session

GET IT ON Google Play | Download on the App Store

pod POINT

Solo Smart Charger (Socketed)

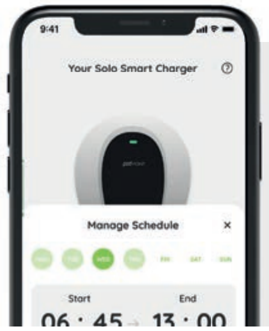
- In-built earth-neutral failure protection (no earth rod or isolation transformer required)
- Load balancing ensures no pre-authorisation required from the ENA or DNO
- Every unit is now fitted with 6mA DC leakage protection (no type B RCD required)
- Compatible with all plug-in vehicles
- Wi-Fi enabled
- Over the air software updates for the life of the charger when connected to Wi-Fi
- Connector Type: Universal
- 290 x 330 x 167mm (W x H x D)
- IP Rating: IP54

PART NO.	POWER
S7-UC-3	3.6-7kW
S22-UC-3	11-22kW

Solo Smart Charger (Tethered)

- In-built earth-neutral failure protection (no earth rod or isolation transformer required)
- Load balancing ensures no pre-authorisation required from the ENA or DNO
- Every unit is now fitted with 6mA DC leakage protection (no type B RCD required)
- Includes standard 7.5m tethered lead
- Pairs with the Pod Point App via Wi-Fi
- Over the air software updates for the life of the charger
- 290 x 330 x 167mm (W x H x D)
- IP Rating: IP54

PART NO.	POWER	CONNECTION
S7-1C-3	3.6-7kW	Type 1
S7-2C-3	3.6-7kW	Type 2
S22-2C-3	11-22kW	Type 2



Podpoint App

- Manage your home charging activity
- Charge on the Pod Point Network
- Access workplace & fleet charging

GET IT ON Google Play | Download on the App Store

Domestic Charging

eris EV

3 YEAR WARRANTY

Charging Unit

- Range includes single and 3-Phase 5M Tethered and Non-Tethered Options (7.4kW – 22kW) LCD Display: 11cm black & white screen
- Powder Coated Steel Housing that provides a certified IK10 Impact Resistance
- 4.3" TFT Back Lit Colour LCD Display screen with digital QR Code for MONTA integration
- 4G, Wi-Fi and LAN connectivity to cater for all Smart installation requirements
- Dynamic Load Management Feature via included CT Clamp (ALM Versions)
- OZEV Residential and Commercial approved Charge Points
- Additional Holster & box section accessories available for Floor Mount applications
- Integrated MID Certified Digital Energy Meter (ALM Versions)
- Integrated Earth – Neutral failure protection
- TypeA+DC6ma, over current, Residual current, Surge, Over/Under voltage, Over/Under frequency, Over/Under temperature protections
- Rated Voltage: 230V AC
- Rated Current: 16A/32A
- Frequency: 50Hz+2Hz
- Charge Connector: Type 2 Cable
- Emergency Stop: Yes
- Certification: CE
- Certification Standard: EN 61851-1: 2017, EN 61851-21-2: 2018
- 245 x 350 x 93mm (H x W x D)

PART NO.	DESCRIPTION
ERWBU7	Untethered 7KW/32A + Load Management
ERWBU7-R4	Untethered 7KW/32A + Load Management + RFID (4G)
ERWBT7-R4	Tethered (Type 2) 7KW/32A + Load Management + RFID (4G)
ERWBU22-R4	Untethered 22KW/32A + Load Management + RFID (4G)
ERWBT22-R4	Tethered (Type 2) 22KW/32A + Load Management + RFID (4G)
CABLE-TIDY	Cable Tidy

Domestic Charging

Ohme

Ohme ePod

Untethered:

- Only manufacturer that gives access to every EV tariff available in UK
- In-built PEN fault detection
- In-built dynamic load management
- Connection via 3G/4G sim card
- Cable entry through the rear or underside
- Over the air firmware / software upgrades
- Complies with all smart charge and data security regulations

PART NO.	DESCRIPTION
OHMEX1GB003-BL	Ohme - Untethered

Tethered:

- Only manufacturer that gives access to every EV tariff available in UK
- Interactive LCD screen, displaying live charge data
- In-built PEN fault detection
- In-built dynamic load management
- Connection via 3G/4G sim card
- Load balancing clamp, wagos and cable hook included
- Complies with all smart charge and data security regulations

PART NO.	DESCRIPTION
OHME0002GB002	Ohme Home Pro - 5m Tethered Cable
OHME0002GB002-8M	Ohme Home Pro - 8m Tethered Cable

Ohme App

- Connect to your electricity tariff to charge at the cheapest rates
- Connect your car app for all your EV info in one place
- Max Charging feature to give your car a quick boost

GET IT ON Google Play | Download on the App Store

SYNC EV

7.4kW Charging Unit

- Models with Wi-Fi, Wi-Fi+GSM and i-Fi+GSM+RFID
- Dynamic charging - up to 7.4kW (32A)
- No earth rod required - integrated open PEN conductor protection
- Safe - integrated RCD + PEN protection
- OCPP 1.6J connectivity - free lifetime over-the-air updates
- Socketed models - Type 2 socket with auto-lock
- Tethered models - 7.5m cable with Type 2 plug

PART NO.	DESCRIPTION
EVS7G	Untethered, Wi-Fi
EVS7GG	Untethered, Wi-Fi & GSM
EVS7GGR	Untethered, Wi-Fi, GSM & RFID
EVT77G	Tethered, Wi-Fi
EVT77GG	Tethered, Wi-Fi & GSM

Sync EV App

- Easily track your usage
- Get rewarded for charging
- Keep track of the cost and energy of your charging sessions at home and away

GET IT ON Google Play | Download on the App Store

myenergi

Zappi Eco E Charging Point

- 1.4-7.4kW
- 3 Charging Modes: ECO, ECO+ and FAST
- Optimises microgeneration Self-Consumption
- Works With Solar PV or Wind Turbine Systems
- Economy tariff sense input
- Programmable timer function
- Charge and event logging
- Pin-code lock function
- OZEV Approved
- Continuously adjusts in response to changes in generation or power consumption elsewhere in the home
- Charging will continue until the vehicle is fully charged, even if power is drawn from the grid
- Charging will pause if there is too much imported power, continuing only when there is surplus free power available
- Built-in RCD protection
- Remote control and monitoring add-on option
- Supplied with clip-on grid current sensor(s)
- Works alongside battery storage systems

PART NO.	DESCRIPTION
ZAPPI-2H07TB	Black Unit, Tethered
ZAPPI-2H07UB	Black Unit, Untethered
ZAPPI-2H07TW	White Unit, Tethered
ZAPPI-2H07UW	White Unit, Untethered

Harvi Power Sensor and Eddi heater load available (see page 32)

MyEnergi App

- Manage and monitor your energy from anywhere using your smartphone

GET IT ON Google Play
Download on the App Store

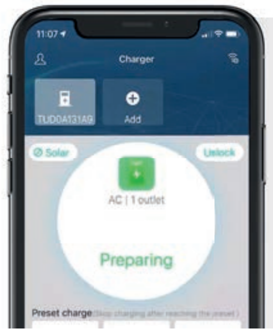
5 YEAR WARRANTY

PROJECT EV

Pro Earth Wall AC Charger

- Pro Earth, no spike required
- Solar compatibility
- Time shifting capability
- Cable lock system for added security
- Compact, sleek design
- OZEV approved
- Connector Type: Type 2
- 240 x 380 x 145mm (W x H x D)
- IP Rating: IP65

PART NO.
EVA-07S-SE-BLK



Project EV App

- Choose and customise charging rates
- Prioritise off-peak charging to maximise savings
- Create charging records; so you can see and control all your data

GET IT ON Google Play
Download on the App Store

AC Commercial Charging

YESSS EV have access to a range of Commercial AC charging points from leading manufacturers with a selection of technology to make both installation and user experience more seamless. YESSS EV offer a range of AC chargers up to 22kW that include features such as load maintenance billing and access control

PROJECT EV

22kW Pro Earth Dual Gun RFID Wall AC Charger

- 22KW Dual Type 2 sockets
- Three Phase AC charging unit
- Pen Fault protection
- RFID control
- Over voltage protection
- Under voltage protection
- Short Circuit protection
- Surge protection

PART NO.
EVA-22D-SE-W

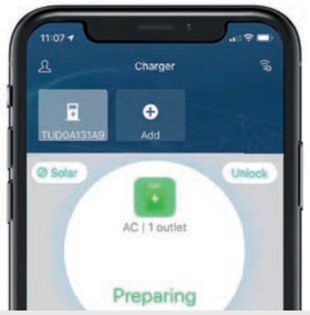
5 YEAR WARRANTY

PROJECT EV

22kW Pro Earth 32A 3-Phase

- Over voltage protection
- Under voltage protection
- Over load protection
- Short circuit protection
- Earth leakage protection
- Over-temp protection
- Surge protection
- PEN fault protection

PART NO.
EVA-22S-SE-RFID-4G



Project EV App

- Choose and customise charging rates
- Prioritise off-peak charging to maximise savings
- Create charging records; so you can see and control all your data

Google Play · App Store

easee

Easee Charge

- Easee Charge maximises the available electrical capacity within the building using dynamic load and phase balancing. The ultimate solution for delivering EV-Charging at scale for workplace, apartment blocks, car parks and fleet
- Fully dynamic charging power 1.4 - 22kW (1 and 3 phase charging)
- Reduces capacity requirements by up to 90%
- Load balancing of up to 101 chargers per fuse
- Automatic queuing system
- The load and phase balancing works offline
- Wi-Fi connectivity
- Integrated 4G in each box (e-sim), free subscription included for life
- Connector Type: Type 2
- 193 x 256 x 106mm (W x H x D)
- IP Rating: IP54
- Permanent locking of the Type 2 cable
- Universal, fits all types of electric cars & power supplies

PART NO.
10518

OPTIONAL COLOURS AVAILABLE: ANTHRACITE GREY, DARK BLUE, RED, WHITE

Easee App

- Check the status of the charger
- Adjust the charging power
- Schedule a charging session

Google Play · App Store

CTEK

Chargestorm Connected 2

- Charging power 1.4–22 kW
- Adjustable charging power via app or software
- NanoGrid™ dynamic load balancing support
- Built-in fuse, AC and DC ground fault detection, built-in energy meter
- Easy installation and lock protected for maintenance
- Wall or pole mounted
- Ambient operating temperature from -30 ºC to +50 ºC
- RFID reader
- OCPP 1.5/ 1.6
- IP54 and IK10

PART NO.
910-17060

2 YEAR WARRANTY

Other variations available
Ask a member of staff for further details

CTEK App

- Find available Sevadis EV charge points
- Pay for charging
- Remotely activate charging sessions and monitor usage by time and cost.

Google Play · App Store

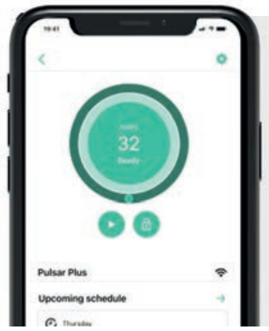
wallbox

Copper SB

- Suitable for both domestic and commercial installations including fleet and public parking use for multiple users
- IP54/IK10 rated
- Charging power up to 22kW
- Socket connector is universally accepted by all plug-in vehicle types
- The authentication of users can be done through RFID, the app and the Portal
- Dynamic Power Sharing option available for balancing charging power across chargers
- Compatible with all Wallbox Energy Management Solutions, including solar EV charging, dynamic, load balancing, and dynamic power sharing

3 YEAR WARRANTY

PART NO.
CPB1-S-2-4-5-002-A



Wallbox App

- Monitor the status of your charger and control it from anywhere via your smart devices
- Get energy use and spending statistics in real-time.
- Secure your charger with remote locking and unlocking and monitor usage by time and cost.

GET IT ON Google Play
Download on the App Store

SEVADIS

POWERING ELECTRIC VEHICLES

MaxiCharger Pillar

- Single or dual ground mount pedestal for Maxi chargers
- Customisable
- Powder coated black as standard

PART NO.	DESCRIPTION
MCCSUV	MaxiCharger Single Pedestal Housing
MCCDCSUV	MaxiCharger Dual Pedestal Housing

eris EV

3 YEAR WARRANTY

Charging Unit

- Range includes single and 3-Phase 5M Tethered and Non-Tethered Options (7.4kW – 22kW) LCD Display: 11cm black & white screen
- Powder Coated Steel Housing that provides a certified IK10 Impact Resistance
- 4.3" TFT Back Lit Colour LCD Display screen with digital QR Code for MONTA integration
- 4G, Wi-Fi and LAN connectivity to cater for all Smart installation requirements
- Dynamic Load Management Feature via included CT Clamp (ALM Versions)
- OZEV Residential and Commercial approved Charge Points
- Additional Holster & box section accessories available for Floor Mount applications
- Integrated MID Certified Digital Energy Meter (ALM Versions)
- Integrated Earth – Neutral failure protection
- TypeA+DC6ma, over current, Residual current, Surge, Over/Under voltage, Over/Under frequency, Over/Under temperature protections
- Rated Voltage: 230V AC
- Rated Current: 16A/32A
- Frequency: 50Hz+2Hz
- Charge Connector: Type 2 Cable
- Emergency Stop: Yes
- Certification: CE
- Certification Standard: EN 61851-1: 2017, EN 61851-21-2: 2018
- 245 x 350 x 93mm (H x W x D)

PART NO.	DESCRIPTION
ERWBU7	Untethered 7KW/32A + Load Management
ERWBU7-R4	Untethered 7KW/32A + Load Management + RFID (4G)
ERWBT7-R4	Tethered (Type 2) 7KW/32A + Load Management + RFID (4G)
ERWBU22-R4	Untethered 22KW/32A + Load Management + RFID (4G)
ERWBT22-R4	Tethered (Type 2) 22KW/32A + Load Management + RFID (4G)
CABLE-TIDY	Cable Tidy

PROJECT EV

20kW Wall DC Charger Single Gun RFID (CCS)

- CCS Connector
- Rapid Charging
- IP54 Protection
- RFID Control
- 29a Three Phase
- 20KW Max. Output Power
- 5m Cable Length
- 4.3 inch Screen Display
- 450 x 630 x 210mm (WxHxD)

PART NO.
EVD-20S-P

PROJECT EV

40kW Wall DC Chargers

- 63a Three Phase
- 40KW Max. Output Power
- 5m Cable Length
- 7 inch Screen Display
- 540 x 760 x 271mm (WxHxD)

PART NO.	OUTLET TYPE
EVD-40S-P	CCS
EVD-40D-P-CC	CCS x2
EVD-40D-P-CM	CCS & CHAdeMO

What is Open Charge Point Protocol?

OCPP, or Open Charge Point Protocol to give it its' full name, is a language used to communicate between a charger or chargers and a back-office management system. It provides added flexibility and freedom for chargers to be managed by third party outfits providing customers with greater control over both their charging network and the back-office system they opt for. In many instances the back-office management system is cloud based.

How it started

OCPP started as a forum in the Netherlands which sought to future-proof charging infrastructure by reducing reliance upon hardware manufacturer based software which was charger specific, and instead provide an open platform that could link groups of chargers from various manufacturers across countless locations into one easy to manage, easy to operate system. The forum, which initially comprised of two members, now has over 50. With more and more options available to the end client.

What are the benefits?

Charger hosts or owners are not tied into one back office management system based on the hardware they have purchased. OCPP provides the freedom to purchase hardware from one or several suppliers, and back office management from another. The key benefit here is flexibility, as we often see in the commercial charging market, clients do not wish to bill people for the usage of the charger in the early days to encourage EV uptake and reward early adopters. However, as EV becomes the norm and electricity usage creeps up via the charging points, clients may wish to then begin billing users for the energy consumed. An OCPP compatible unit could remain as a "plug and play" charger for some time but then merely by activating the software can be altered into a fully smart system.

The other main benefit that can be derived from this flexibility is a safety net. If you are reliant upon software from a charging manufacturer, and for whatever reason they cease to exist, you or your customers could be left with a dumb charger when you paid for and installed a smart one. With OCPP if one back office provider went into liquidation, you could merely switch across to another, reducing any downtime caused by this and limiting losses for your business and your customers.

A further by-product of the flexibility OCPP provides is the ability to mix and match charging hardware across a portfolio of sites. EV charging has advanced massively over the last few years and that upward curve of innovation and development is only set to continue. What could have been classified as the pinnacle of charging technology in 2015, by now, may be unfit for purpose. In many instances this isn't the fault of the hardware, because the standardised universal sockets and single-phase power ratings will still provide ample charge for most vehicles should they have a long enough dwell time. What causes many clients to feel their units are defunct is in fact the software, or lack of it. With OCPP enabled EV chargers, you merely switch or activate the back-office provision. When growing a charging network, it also means if a client buys one brand of charger today, but several more over the coming years, they do not have to run numerous back office platforms.

Load management

Local load management allows you to use your building's existing electrical panel power capacity to charge multiple electric vehicles via charging stations by allowing the charging stations to talk to each other, doling out a steady electrical current to each.

4G and connectivity

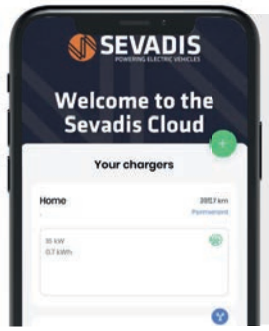
4G LTE, which has been available since 2012 in the UK, offers a superior service than its predecessor, 3G. 5G, which is already in most large towns and cities in the UK, is already creating even more possibilities, thanks to unrivalled speeds, resilience, and latency. Cellular connectivity is widely used for IoT-enabled devices located in rural and urban areas that struggle with wired connections. As well as EVC points, this also includes telemetry devices, sensors, CCTV, access terminals, and other M2M applications.

Fuuse and Monta

Fuuse

The Power Behind EV Charging

Take control of your EV chargers
Fuuse is the flexible charge point management platform compatible across any OCPP chargers, fully configurable to your EV charging needs, and scalable across settings.



Fuuse
- Save Energy
- Reduce Costs
- Access more chargers
- Resolve problems quickly
- Generate Revenue

GET IT ON Google Play | Download on the App Store

What do you need from your chargers?

You're in charge.
Add any combination of chargers across your site, regardless of manufacturer. Control all of your chargers across your network from one back office system.

Self-configure your network in minutes
Easily setup your network with self service onboarding and commissioning tools, and an intuitive platform interface.

Ultimate flexibility & access controls
Give special rates to your employees, open your chargers for the public and generate additional revenue.

An evolving app for EV Drivers
The intuitive Fuuse EV Driver App allows drivers to discover compatible chargers, and easily begin, pay for and track the progress of their charging sessions. Our driver app will continue to evolve alongside platform developments, with even more features being released to empower your drivers.

MONTA

Manage multiple user in one system

Whether you have one or 10 charge points, Monta makes it easy for you. Once connected to our software, you can track individual charge point usage and add or remove users.

- Add or remove charge point users
- Track their usage in real-time
- Easy management from one platform

Set different pricing for different groups

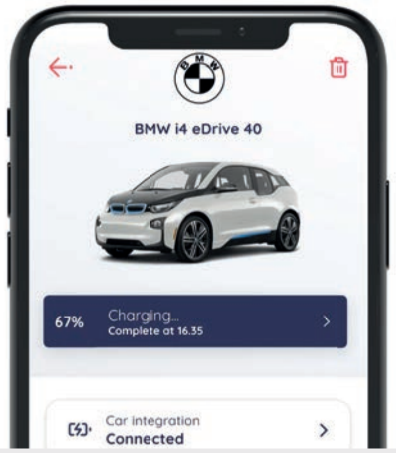
Let your colleagues or neighbors charge at a low cost, while guests and other EV drivers pay a larger fee. With Monta, you decide the price per kWh.

- Create as many pricing groups as you want
- Decide how much it costs to use your charge points
- Edit pricing levels as often as you want

Safe and secure real-time payments

Whether it's a neightbour, employee or just another EV driver looking to recharge, payments happens instantly. Say goodbye to tedious paperwork and hello to Monta's digital EV payment solution.

- Get real-time payments
- Easily track usage, payments, and transactions
- Gain the financial overview with one system



Monta
- Share your charger with friends and family
- Choose whether your charger should be private or public
- Manage multiple chargers
- Add your charging key to Monta to easily start and stop a charge

GET IT ON Google Play | Download on the App Store

Jumptech

jumptech

YESSS powered by Jumptech

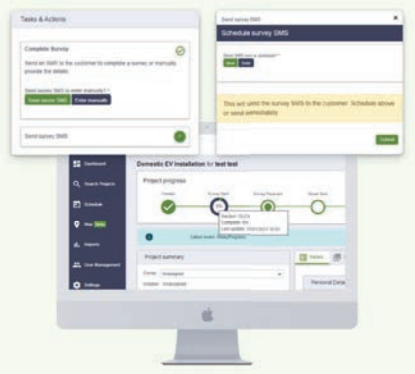
Focus on the EV Charge Point installation, not the admin!

Jumptech is the leading charge point installation software platform and is available to all YESSS customers. This unique tool allows you to focus on the installation whilst providing your customers a seamless experience from enquiry to install.

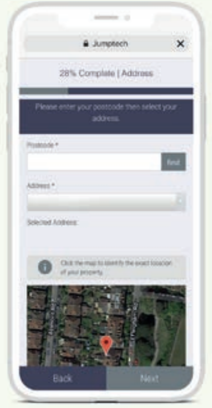
What can the Jumptech platform do for you?

- Remote customer self-survey tool
- Apply your logo and company name to all customer communications
- Auto generate documentation
- Store everything in one place
- Generate and send quotes
- Schedule installations with live status updates
- On-site job completion details can be captured offline using our mobile field app for iOS and Android

GET IT ON Google Play | Download on the App Store



Back office workflow management
All aspects of the project are visible from enquiry to installation, and automated customer communication keeps everyone in the loop



Customer Self-Survey
Send your customers a guided self-survey to gather site information for a quote

Field engineer mobile app
All the information you need for an install at your fingertips; including job scheduling, on-site signatures and warranty data capture

EV Ultra®

EV-Ultra Tuff-Sheath 3 Core

EV-Ultra Cat5 Tuff-Sheath 3 Core

EV-Ultra Cat5 Tuff-Sheath 5 Core

EV-Ultra Cat5 SWA 3 Core

EV-Ultra SWA 3 Core

EV-Ultra Cat5 SWA 5 Core

EV-Ultra® Cable

Designed for use with the installation of electric vehicle charge points. The cable incorporates power conductors and a two core screened data cable, encapsulated in a double sheathed design for extra protection.

Can be installed in air, clipped to a surface, on cable tray/ ladder work and embedded in concrete. The cables can be laid direct in the ground providing that suitable additional mechanical protection is in place.

- Power and data combined in one cable
- Less storage space required
- Easier to handle
- Easier to route through walls and buildings
- Saves installation time
- Gives a cleaner, neater looking installation

PART NO.	DESCRIPTION
EV-ULTRA3C4.0	3 Core 4mm² Power and Data Cable
EV-ULTRA3C4.0SWA	3 Core 4mm² Power and Data Cable SWA
EV-ULTRA3C4.0CAT5	3 Core 4mm² Power and CAT5 Cable
EV-ULTRA3C4.0CAT5SWA	3 Core 4mm² Power and CAT5 Cable SWA
EV-ULTRA3C6.0	3 Core 6mm² Power and Data Cable
EV-ULTRA3C6.0SWA	3 Core 6mm² Power and Data Cable SWA
EV-ULTRA3C6.0CAT5	3 Core 6mm² Power and CAT5 Cable
EV-ULTRA3C6.0CAT5SWA	3 Core 6mm² Power and CAT5 Cable SWA
EV-ULTRA3C710CAT5	3 Core 10mm² Power and CAT5 Cable
EV-ULTRA3C710CAT5SWA	3 Core 16mm² Power and CAT5 Cable SWA
EV-ULTRA3C716CAT5	3 Core 16mm² Power and CAT5 Cable
EV-UTLRA3C716CAT5SWA	3 Core 16mm² Power and CAT5 Cable SWA
EV-ULTRA5C6.0CAT5	5 Core 6mm² Power and CAT5 Cable
EV-ULTRA5C6.0CAT5SWA	5 Core 6mm² Power and CAT5 Cable SWA
EV-ULTRA5C710CAT5	5 Core 10mm² Power and CAT5 Cable
EV-ULTRA5C710CAT5SWA	5 Core 16mm² Power and CAT5 Cable SWA
EV-ULTRA5C716CAT5SWA	5 Core 16mm² Power and CAT5 Cable SWA

Test Equipment

Professional EVSE Testing Kit

- Full guided auto sequence when testing EVSE charging stations
- 6mA DC RCD and ramp test for EVSE charging stations
- 30mA Type A RCD and ramp test for EVSE charging stations
- Tests Mode 2 and Mode 3 charging stations
- Fault simulation (PE and E)
- Phase presence indication
- Type 2 connection
- Data saving using the TIS MFTPRO
- Data export using the top view software provided
- Vehicle status (CP) A,B,C and D
- Cable coding simulation (PP) 13A, 20A, 32A and 63A
- Ventilated or non-ventilated charging stations
- Single phase or three phase EVSE charging stations
- The TIS EV TEST100 can be used with most capable multifunctions
- L-N, L-PE with PSC and PFC displayed on one non-trip loop test
- TRMS for accurate and reliable results on noisy distorted circuits

PART NO.
TISMFTPRO-EV

EVSE Testing Adapter

- Enables testing of EV charging points
- PE Pre-Test
- PP simulation & CP states A, B, C, D
- CP Error / PE Error/ Earth fault
- LED indication of Phases
- Universal, works with all MFT with EVSE testing capabilities

PART NO.
KEWEVSE

Electric Vehicle Charge Point Adaptor

- Push Button for PE Pre-Test, CP Error "E" simulation and PE Error (Earth Fault) simulation
- Rotary switch providing PP State simulation and CP State simulation
- Type 1 Charging Plug for charging points with fixed cable and vehicle connector
- Type 2 Charging Plug for charging points with panel mounted socket outlet or fixed cable with vehicle connector
- IP54 Rating
- CAT II 300V Rating
- Comply with Low Voltage Directive LVD 2014/35

PART NO.
1012-732

125A Pro Earth Interface

- The Project EV Pro Earth Interface allows you to convert any Project EV charger into a Pro Earth charging unit
- The device has the ability to connect multiple charge points to one interface, granting full PEN protection across multiple charge points simultaneously
- With a market-leading 5-year warranty, and IP5X protection the Pro Earth Interface is built in a smart compact design, for convenience and ease upon installation

PART NO.
EV-PROI-125A

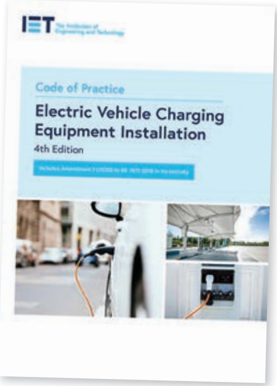
5m 32A Single Phase Type 2 to Type 2 Charging Lead

- The single phase Type 2 charging cable offers both Slow Charging 3.6kW (16A) and Fast Charging 7.2kW (32A) at any Type 2 single phase socket public or home charging unit
- The three phase cable offers charging speeds of 11kW (16A) and up to 22kW (32A)
- With an IP55 waterproof rating you can rest easy leaving your cable outside overnight

PART NO.	PHASE
EVW5M32A-T2T2	Single
EVW5M32A-3P-T2T2	Three

IET Code of Practice for Electric Vehicle Charging Equipment Installation, 4th Edition

- This Code of Practice provides a clear overview of EV charging equipment, as well as setting out the considerations needed prior to installation and the necessary physical and electrical installation requirements


IET

Code of Practice

Electric Vehicle Charging Equipment Installation

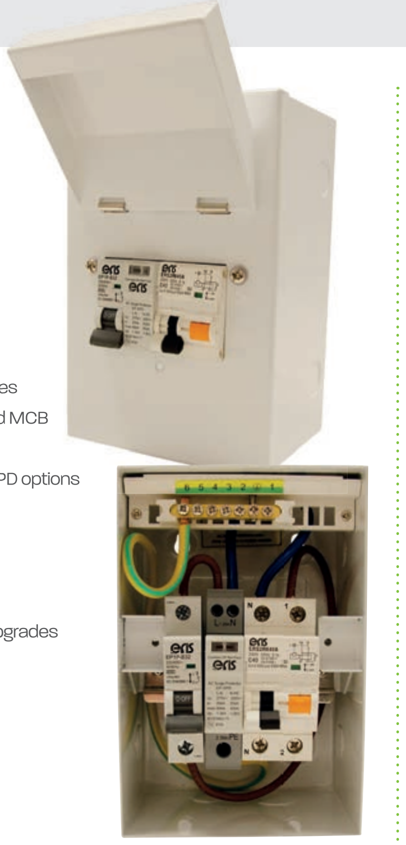
4th Edition

PART NO.
PIETEVC20

Consumer

EV Metal Clad Single Phase Consumer Unit

- 4 and 6 module metal clad enclosures
- Fully fitted and wired with RCBO and MCB
- ERiS Pro integrated 40kA T2 SPD
- 10kA, 15kA, 25kA, 50kA and 70kA SPD options
- 230V and 400V network capability
- Multi-MOV technology
- Replacement SPD cartridges
- Remote signalling option
- Suitable for new installations and upgrades



PART NO.
EPMCUEV440

RCD 2 Pole, Type A, 6kA

- 230V
- 6kA Rated
- 30mA Trip
- CE and SEMKO Certified
- BS EN61008-1, EN61108-2-1
- AC & DC Current

PART NO.	DESCRIPTION
ERS2P40A30A	40A
ERS2P63A30A	63A

2 Pole, Type A, 30mA Compact RCBO

- C Curve
- AC & DC current
- Solid Neutral
- IP20 rated
- CE & SEMKO Certified
- BS EN61009-1

PART NO.	DESCRIPTION
ERS2R632A	32A
ERS2R640A	40A

100A Single Pole Connector Block 5x35mm

- Robust construction
- For use at mains and meter positions
- W: 67mm, D: 63mm, H: 106mm
- Easy knockout entry points
- IP20 rated

PART NO.
WSPCB100

Gland Pack

- 4 part gland kit comes with shrouds, earth tags and steel locknuts
- For use in outdoor conditions
- Thread size: M20
- Brass

PART NO.
YCW20

SuperClip, 12mm - 14mm, Black

- SWA cables, PVC/metal conduit
- For bunched cables
- Anchor fixings for wire etc
- Indoor and Outdoor use (Corrosion Resistant – UV Stable)
- Fire-safe installations (Fire-resistant →1000ºC)

PART NO.	DESCRIPTION
1LSB1214	For cables 12-14mm

Cable Cleats

- Pack Quantity: 100
- Black
- Made from Polypropylene
- Cable Diameter Min: 15.1mm, Max: 17.8mm

PART NO.
YCC7

Earth Rod Pit

- Plastic

PART NO.
YERPIT

Earth Rod to Lug Clamp 3/8" (9.5mm) - Brass

PART NO.
YERLC38

Earth Rod and Clamp Set 3/8th

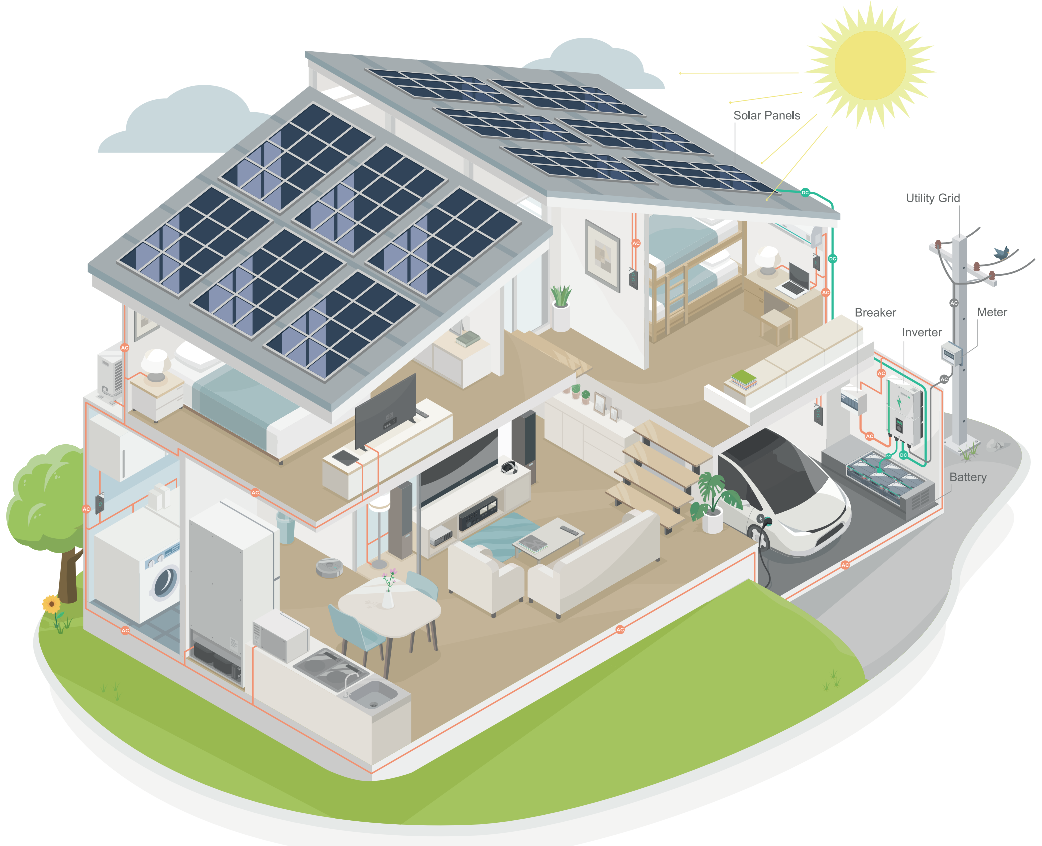
PART NO.
YER384C

Battery & Solar Solutions:

Solar panels require sunlight to create energy, so as soon as its dark you'll be back using power from the grid. Having a battery means the surplus solar energy can be fed into the battery.

The batteries are charged during the day by means of solar energy. The surplus solar energy is fed into the battery rather than being exported to the National Grid. Therefore batteries are always fully charged and can be used on an evening.

In the summer, when there is adequate solar energy, the home can run for much longer without relying on the national grid. Batteries can help home owners and businesses reduce electricity bills while maximising energy independence from the grid.



What is Solar PV?

Solar PV (Solar Photovoltaics) is the generation of electricity using energy from the sun. Modern solar panels produce electricity from daylight and do not require direct sunlight, although more electricity is produced on bright, sunny days.

Enough sunlight falls onto the earth every hour to meet the world's power demands for an entire year, so harnessing and using this free energy can help reduce our reliance on other sources of energy and be beneficial to the environment as well. By installing Solar PV panels you can produce free, green energy for your home or business.

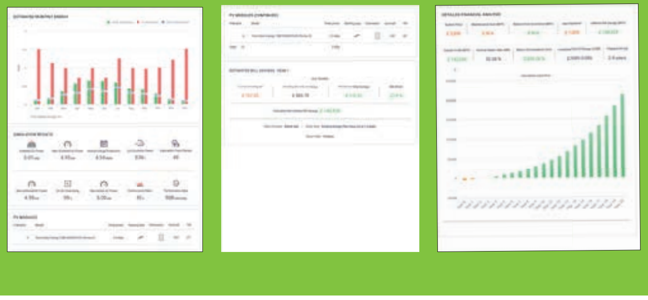
Solar PV panels are normally mounted on the roof of your building although they can also be placed on the ground when a suitable roof is not available. A device called an inverter changes the DC electricity produced by the panels into 'usable' electricity that can then be used to power appliances in your home or fed back into the National Grid if not used.

Feeding energy to the National Grid is no longer compensated for so it is best to make use of the energy you generate before 'exporting' it. The use of an Energy Storage System (Batteries) is the best way to keep your free energy stored for later use when the sun goes down, rather than buying it back from the grid. Batteries can help home owners and businesses reduce electricity bills while maximising energy independence from the grid, including powering essential circuits in the event of a power-cut.

Another place to store surplus electricity is in heat energy, usually in stored hot water tanks, reducing the load on gas or electric boilers.

Solar PV Design Service

- Measurement and planning the layout of PV array(s) using Google Maps, site plans and even drone surveys.
- System and electrical design of the most appropriate inverter(s) and/or storage. Discuss the potential paybacks.
- Mounting design including necessary specifications, accreditations and loadings.



Home Solar Panel Project

Financial Overview

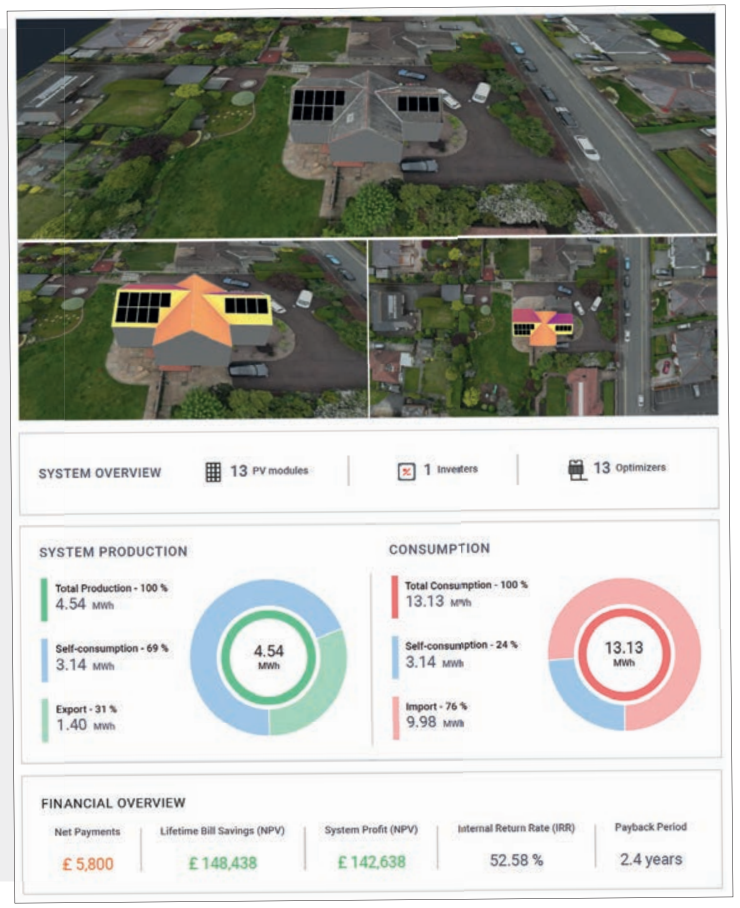
- Net Payments - **£5,800**
- Lifetime Bill Savings (NVP) - **£148,438**
- System Profit (NVP) - **£142,638**
- Internal Return Rate (IRR) - **52.58%**

Payback - R.O.I.

- 2.4 Years

Estimated Savings, Avg. Monthly

- Current Monthly Bill - **£767.05**
- Monthly Bill with Solar - **£583.70**
- Net Bill Monthly Savings - **£183.35**
- Bill Offset - **23.9%**



SYSTEM OVERVIEW

13 PV modules

1 Inveters

13 Optimizers

SYSTEM PRODUCTION

Total Production - 100 %
4.54 MWh

Self-consumption - 69 %
3.14 MWh

Export - 31 %
1.40 MWh

CONSUMPTION

Total Consumption - 100 %
13.13 MWh

Self-consumption - 24 %
3.14 MWh

Import - 76 %
9.98 MWh

FINANCIAL OVERVIEW

Net Payments	Lifetime Bill Savings (NPV)	System Profit (NPV)	Internal Return Rate (IRR)	Payback Period
£ 5,800	£ 148,438	£ 142,638	52.58 %	2.4 years

SUN SYNK®

Battery Storage Solutions

Lithium Batteries

The battery can be expected to remain serviceable for more than 10 years and this takes into consideration that it is charged and discharged once per day at room temperature (25ºC). Lithium ferro phosphate batteries provide excellent thermal stability and storage. The module also incorporates a self-monitoring function for the detection of any abnormalities in power storage. Multiple batteries can be connected to the systems to increase storage capacity.

PART NO.	DESCRIPTION	LENGTH (W X H X D)
SUN-BATT-IP65	100Ah Battery (BYD) SUN-BATT-5.12	440 x 640 x 140mm

SUN SYNK®

Inverters

Hybrid 3.6kW Inverter

- Length: 62.2cm Width: 46.9cm Height: 35.0cm
- Colourful touch LCD, IP65 protection degree
- DC couple and AC couple to retrofit existing solar system
- Max.16 inverters in parallel; support multiple batteries parallel
- Max. charging/discharging current of 90A
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator
- Warranty included

PART NO.
SUNSYNK-3.6K-SG01LP1

3-Phase 12kW Hybrid Inverter

- Compatible with 48V low-voltage battery
- Isolation transformer design
- 6 time periods for battery charging/discharging
- Maximum charging/discharging current of 240A
- Frequency control
- Up to 10 inverters in parallel
- DC and AC couple to retrofit the existing solar system
- Support storing energy from diesel generator
- Interactive display
- Warranty included

PART NO.
SUNSYNK-12K-SG04LP3

Other sizes and specifications available on request.
Ask a member of staff for further details

Cable Accessories available

ask a member of staff for further details

Jinko Solar
Building Your Trust in Solar

All Black Module - 420 Watt

Key Features

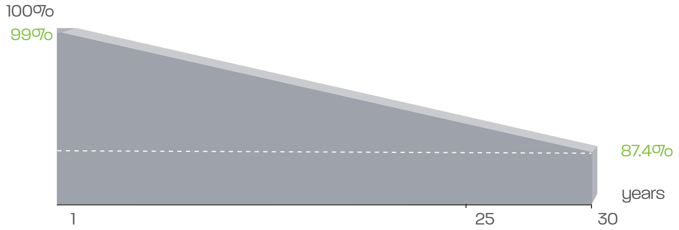
- SMBB Technology - Better light trapping and current collection to improve module power output and reliability
- PID Resistance - Excel lent Ant i-PID performance guarantee via optimised mass-production process and materials control
- Durability against extreme environmental conditions - high salt mist and ammonia resistance
- Hot 2.0 Technology - The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID
- Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)

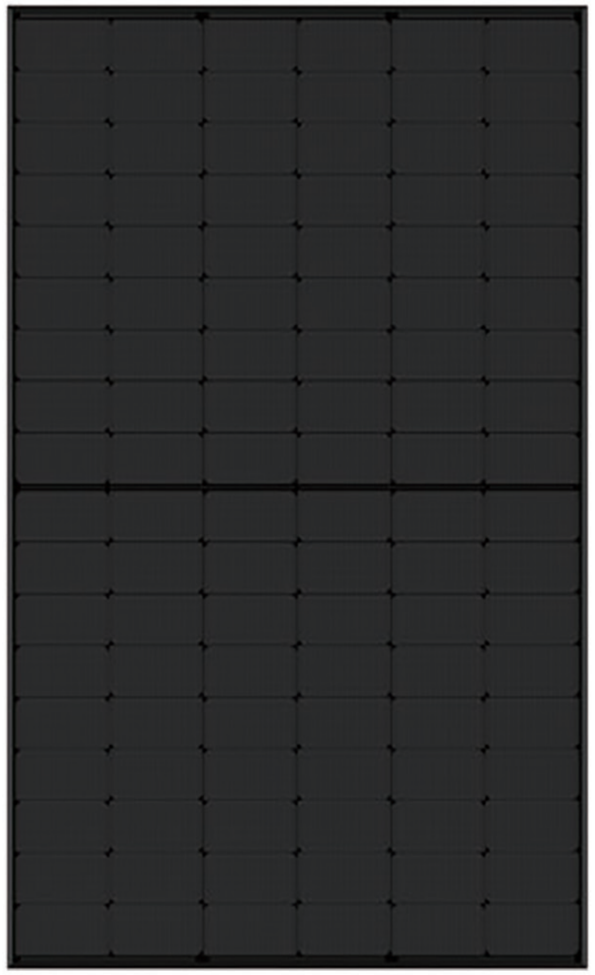
Mechanical Characteristics

- Cell Type - N type Mono-crystalline
- No. of cells - 108 (6x18)
- Dimensions - 1722 x 1134 x 30mm
- Weight - 22kg
- Front Glass - 3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
- Frame - Anodised Aluminium Alloy
- Junction Box - IP68 Rated
- Output Cables - TUV 1x4.0mm2 (+): 400mm, (-): 200mm or Customised Length

Linear Performance Warranty

- **25 YEAR** Product Warranty
- **30 YEAR** Linear Power Warranty
- **0.40%** Annual Degradation Over 30 years

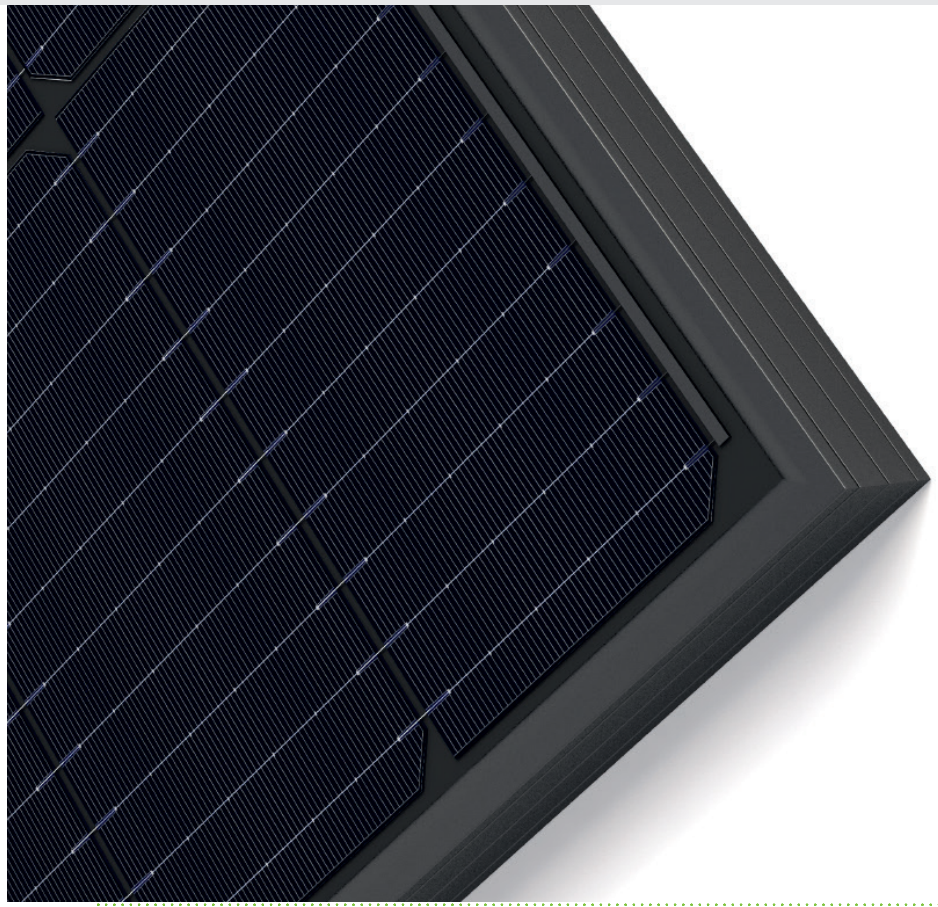




MODULE TYPE - JKM420N-54HL4-B		
	STC	NOCT
Maximum Power (Pmax)	420Wp	316Wp
Maximum Power Voltage (Vmp)	32.04V	29.97V
Maximum Power Current (Imp)	13.11A	10.54A
Open-circuit Voltage (Voc)	38.15V	36.24V
Short-circuit Current (Isc)	13.80A	11.14A
Module Efficiency STC (%)	21.51%	
Operating Temperature(°C)	-40°C~+85°C	
Maximum system voltage	1000VDC (IEC)	
Maximum series fuse rating	25A	
Power tolerance	0~+3%	
Temperature coefficients of Pmax	-0.30%/°C	
Temperature coefficients of Voc	-0.25%/°C	
Temperature coefficients of Isc	-0.046%/°C	
Nominal operating cell temperature (NOCT)	45±2°C	

	IRRADIANCE	CELL TEMP	AM	WIND SPEED
STC	1000W/m^2	25°C	1.5	-

	IRRADIANCE	AMBIENT TEMP	AM	WIND SPEED
NOCT	800W/m^2	20°C	1.5	1m/s



osily® energy

108 Cell All Black PV Module - 405 Watt

- Dimensions: 1722 x 1134 x 30mm
- Weight: 20.5kg
- Mono-crystalline 182mm (2x54pcs)
- All black cell and frame design
- IP68
- Connector: MC4 EVO2
- STC Data:
  Pmax: 405Wp
  Voc: 37.23V
  Imp: 12.98A

PART NO.	DESCRIPTION
PV-OSI-405W-ALLBLK	405W Solar Panel

osily® energy

Wall Mounted Lithium Battery for Home Energy Storage system. It is based on lithium iron phosphate batteries and equipped with customised BMS. 6000+ high cycle times, long service life, and suitable for daily charging and discharging application scenarios.

- High inverter compatibility
- Natural cooling system
- Reliable LFP cells
- Scalable up to 160kWh 16 (Parallel)
- Cells cycle times 6000 cycles
- CANbus standard connection
- IP65 Rating - Triple hardware protection
- Smart BMS system to optimize the performance

PART NO.	DESCRIPTION
LFP 5kWh/LV	5kWh/LV LiFePO4 Battery
LFP 10kWh/LV	10kWh/LV LiFePO4 Battery

myenergi Harvi

Zappi Eco EV Charging Point (see page 12)

Harvi allows the Zappi and Eddi to be installed without wiring a direct CT clamp.

- Wireless power sensor
- Energy harvesting – no batteries or electrical wiring required
- Uses standard CTs supplied with Eddi and Zappi products
- 3 CT inputs for 3-phase supplies
- Wall mountable
- Grid / Generation / Storage measurement configurable
- Fast and accurate measurement

PART NO.
HARVI-65A3P

myenergi Eddi

Zappi Eco EV Charging Point (see page 12)

Eddi is a solar power diverter that helps you to make the most of your self generated power rather than exporting it back to the grid.

- 3.68KW / 16A max. heater load
- Supports two heaters (sequentially)
- Integral bypass switch
- VariSine™ PWM technology
- Fan-less cooling
- Built-in programmable boost timers
- Graphical back-lit LCD screen for ease of use
- Overload and short-circuit protection

PART NO.
EDDI-16A1P01

Doncaster Cables Solarsure®

Halogen Free Cable for Photovoltaic Equipment

- Insulation: Cross Linked Halogen Free Compound - Black or White
- Sheath: Cross Linked Halogen Free Compound - Black
- Min Operating Temperature: -40ºC
- Max Operating Temperature: 90ºC
- Min Bending Radius: 6 x Ø
- Current Carrying Capacity: Rated at DC 1500V

PART NO.	CONDUCTOR SIZE
SC4.0	4mm
SC6.0	6mm

EV Ultra® range (see page 22)

eris Industrial

DC Switch Disconnector for Photovoltaic

- 32A
- UV Rated weather shield enclosure
- IP66 Protection
- Superior aesthetic design
- Hight temperature resistance
- Superior seal, 4 screw design
- Pad lock handle and enclosure
- Earth terminal

PART NO.
ERSP324DC

eris Industrial

32A 4 Pole Surface Mount Isolator IP65

- Flame retardant material
- Padlock able handle in 'Off' position
- Interlocked cover, removable in off position only
- Earth and neutral terminals included
- Conforms to IEC60947

PART NO.
ERS01324

JW SmartMeters

Single Phase kWh Meter

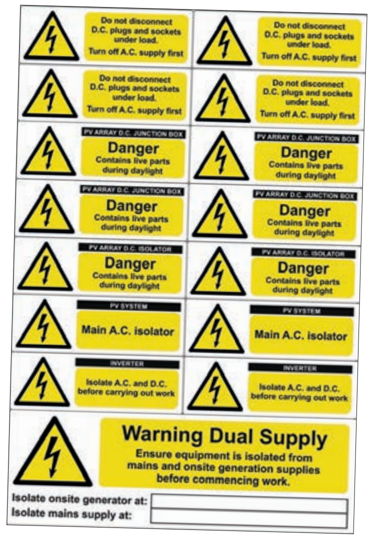
- Accuracy Class A and B
- Fully MID and MiR approved
- 100A direct connected
- Measure Import Active energy and Export active energy (Optional)
- RHI compliant
- Easy-to-read LCD display
- Optical port for configuration or meter reading
- Pulsed output

PART NO.
ECA2.Z

eris Industrial

PV Array /Solar Panel Various Label

- Self adhesive
- Various sizes
- 5 Pack


Do not disconnect D.C. plugs and sockets under load. Turn off A.C. supply first
PV ARRAY D.C. JUNCTION BOX
Danger
Contains live parts during daylight
PV ARRAY D.C. ISOLATOR
PV SYSTEM
Main A.C. isolator
INVERTER
Isolate A.C. and D.C. before carrying out work
Warning Dual Supply
Ensure equipment is isolated from mains and onsite generation supplies before commencing work.
Isolate onsite generator at:
Isolate mains supply at:

PART NO.
ERSLAB33

TIS

PVCHECKs

Multifunction Instrument for commissioning test and performance verification in accordance with BS EN 62446.

- Insulation measurement up to 1000V DC
- Tests a single module, string or an entire photovoltaic field up to 1000V
- Open-circuit voltage measurement up to 15A at 1000V DC
- Short-circuit current measurement up to 15A at 1000V DC
- Continuity of protective conductors at 200mA
- Polarity
- Auto Sequence
- Performance logging of PV Strings
- Optional HT304N meausurment reference Unit

PART NO.
TISPVCHECKS

eris Industrial

PV Solar Straight Connectors with NEC Interlock

- TUV Certified
- Snap Fit Locking Arrangement
- IP67/IP68 Protection when mated
- Low Contact Resistance
- Provides UV Protection (Tested for 500 hrs as per ISO 4892-2)
- Tested as per International Standards / IEC 62852

PART NO.
ERSMC4P

DESCRIPTION	SPECIFICATION
Rated Voltage	1500V DC
Rated Current	25A (2.5mm²), 30A (4.0mm², 6.0 mm²)

TIS

PV ISOTEST

The only instrument currently available for carrying out 1500 DC live insulation resistance testing on solar PV installations including new ground fault tracing.

- Insulation measurement up to 1500VDC
- Tests a single module, string or an entire photovoltaic field up to 1500V
- Faulty module location via new GFL function
- PI & DAR Insulation test modes for checking insulation deterioration
- Continuity of protective conductors at 200 mA

PART NO.
TISPVISOTEST

ENERGY SMART METERING

YESSS Industrial in partnership with:

MY ZeERO

Cut your energy costs

Energy costs keep going up. Which means smart businesses are actively looking for ways to manage their spiralling overheads. MY ZeERO is a UK-based tech company, and we provide our business customers with clever kit that helps them understand exactly how they use energy.

The equipment

- Plastic or metal chassis
- Easy installation
- Easy to connect
- Non-invasive
- Standard 12/24/36 way PDM units

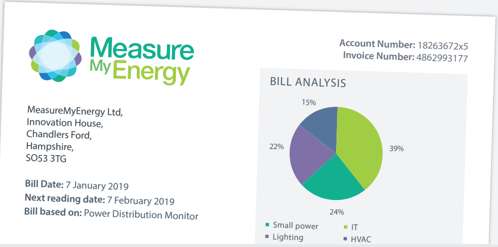
Designed and built in the UK

- Flexible data connection (LAN or 4G)
- Measure individual single and 3 phase circuits in real time
- Can be extended to monitor all circuits in any building
- Connections via CT clamps

Access your data from anywhere

- Accessible anywhere via mobile, PC or tablet
- Multiple access available (with customisable permissions)
- Single and multi-site views
- Multi-language and currency customisation
- Energy exceeding pre-set levels or being used when it shouldn't be (e.g out of hours)
- Immediate notification of equipment that has failed

Itemisation of your energy bill



Measure My Energy

Account Number: 18263672x5
Invoice Number: 4862993177

MeasureMyEnergy Ltd,
Innovation House,
Chandlers Ford,
Hampshire,
SO53 3TG

Bill Date: 7 January 2019
Next reading date: 7 February 2019
Bill based on: Power Distribution Monitor

BILL ANALYSIS
15%
22%
39%
24%
Small power
Lighting
IT
HVAC

- Itemisation of your energy bill (circuit level, in real time)
- This allows you to make informed decisions on your consumption
- Overall and instantaneous power consumption
- Show split between working and non working hours
- Costs in Pounds and Pence
- Carbon footprint usage

YESSS work with all customers large and small from every sector (Retail, Commercial FM, Industrial)

Consumption Analysis

- Initial benchmarking of energy efficiency
- Investment Proposal and Approval
- Detailed assessment of current energy usage (circuit level) used to cost-justify new investments

Investment Validation

- Auditing performance and validating
- Itemisation of your energy bill
- Decision and ROI on the following types of installations: Transformers, Voltage Optimisation HV/LV, and Lighting

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YESSS SECURITY

FREE Surveys and Designs available

We can provide a range of services from product recommendations to a full site design for any job from small domestic systems to large commercial sites.

CCTV, Intruder, Fire, Access Control and Nurse Call Solutions

HIKVISION AUTHORIZED WHOLESALER

WE ARE A HIKVISION STOCKIST!

We are Hikvision Stockists with a full tech support team on hand for any technical enquiries along with access to many other market leading brands!

YESSS LIGHTING

FREE Lighting Design Service

Working with all leading manufacturers
Energy, cost and maintenance saving solutions
Return on investment calculations

YOUR TRADE WEBSITE

Find us at **yesss.co.uk**

Contact your local branch for access to your trade account online features:

• View your local branch stock • Access to nationwide stock • View your saved pricing • Request a quote • Multi-quote ordering • Create 'Favourite' lists for your frequently purchased products • Click & Collect (within 1 hour) • View your account including quotes, orders and statements • Ability to make a payment on your trade account

Ask your branch about a more customised experience

YESSS
RENEWABLES

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renewables@yesss.co.uk

bsi.
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ISO 14001 Environmental Management EMS606982
ISO 45001 Occupational Health and Safety Management OHS606984
ISO 50001 Energy Management ENMS658481

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