

# EV CHARGING INSTALLERS GUIDE

CONNECTING YOU TO EV CHARGING OPPORTUNITIES

2018

**REXEL**

a world of energy



# EV OPPORTUNITY: THE ROADMAP

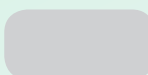
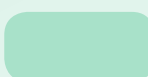
With more people switching to Electric Vehicles (EV's) this is one of the fastest growing opportunities in the UK.

This guide aims to give you a basic overview of the UK's EVC market, the opportunity and how Rexel can support you.

The Roadmap below shows the predicted number of vehicles on UK roads and how many charging points this means. Charging points fall into 3 main categories: Residential and Commercial (AC) and Rapid (DC) and we will cover all of these.

At Rexel we are passionate about EV's and EV Charging and are the industry experts on hand to help! Will you be in the driving seat?

## KEY

-  Number of electric vehicles
-  Number of charging units



## 2019

 **93,000**  
Units

**800k**

 **31,000**  
Units

**400k**



## 2018



### Do you remember the milk float?

This was one of the earliest electric vehicles and the market has certainly moved on since then with Porsche and Tesla leading the way in luxury electric cars, as well as Formula E cars!



## What you can earn!

**£400**  
Cost to you

**£260**  
Profit per install

**2**  
Installs  
per day

**£131k**  
Profit per year

**£660**  
Charge to  
customer

OLEV Accreditation training: £700

Payback = **3** Installs OR **1.5** Days

**2 million**

 **186,000**  
Units

## 2020



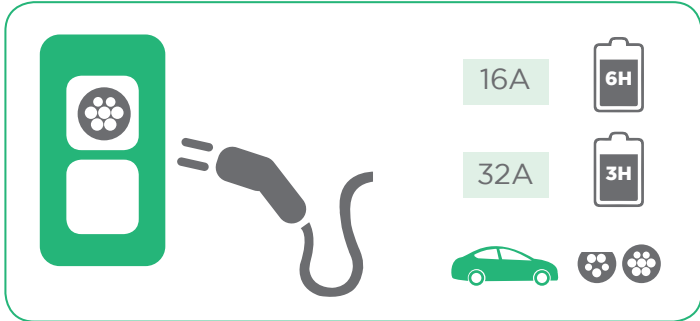


OLEV (the Office for Low Emission Vehicles) provides end users up to £500 off the cost of purchasing & installing a home charging point. To claim the grant the charging point has to be fitted by an OLEV accredited installer. We can offer a 1-2 day course, to help our customers become accredited.

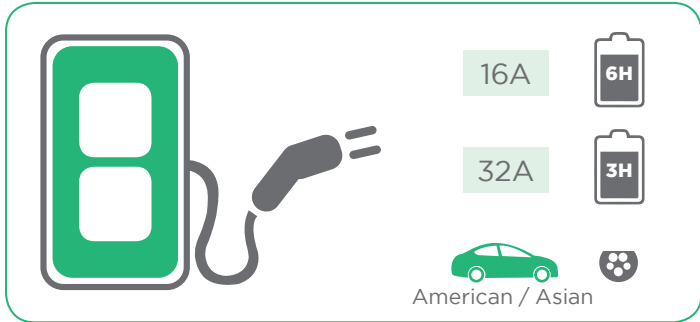
There is a socket version (lead provided with car and is attached to charging point each time) or tethered (lead is attached to charging point). The most popular option is socket 32A wall mounted.

### Charging Point

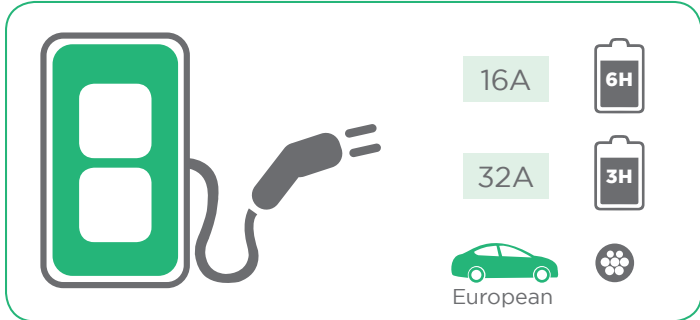
Socket



Tethered type 1 lead



Tethered type 2 lead



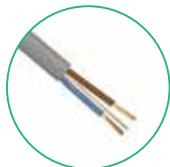
### Electrical Products Needed



MCB



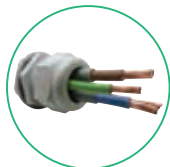
Cable Clips



6mm 6242Y  
T&E Cable



3/8" 1200mm  
Earth Rod



Cable Glands



Light Inspection  
Pit



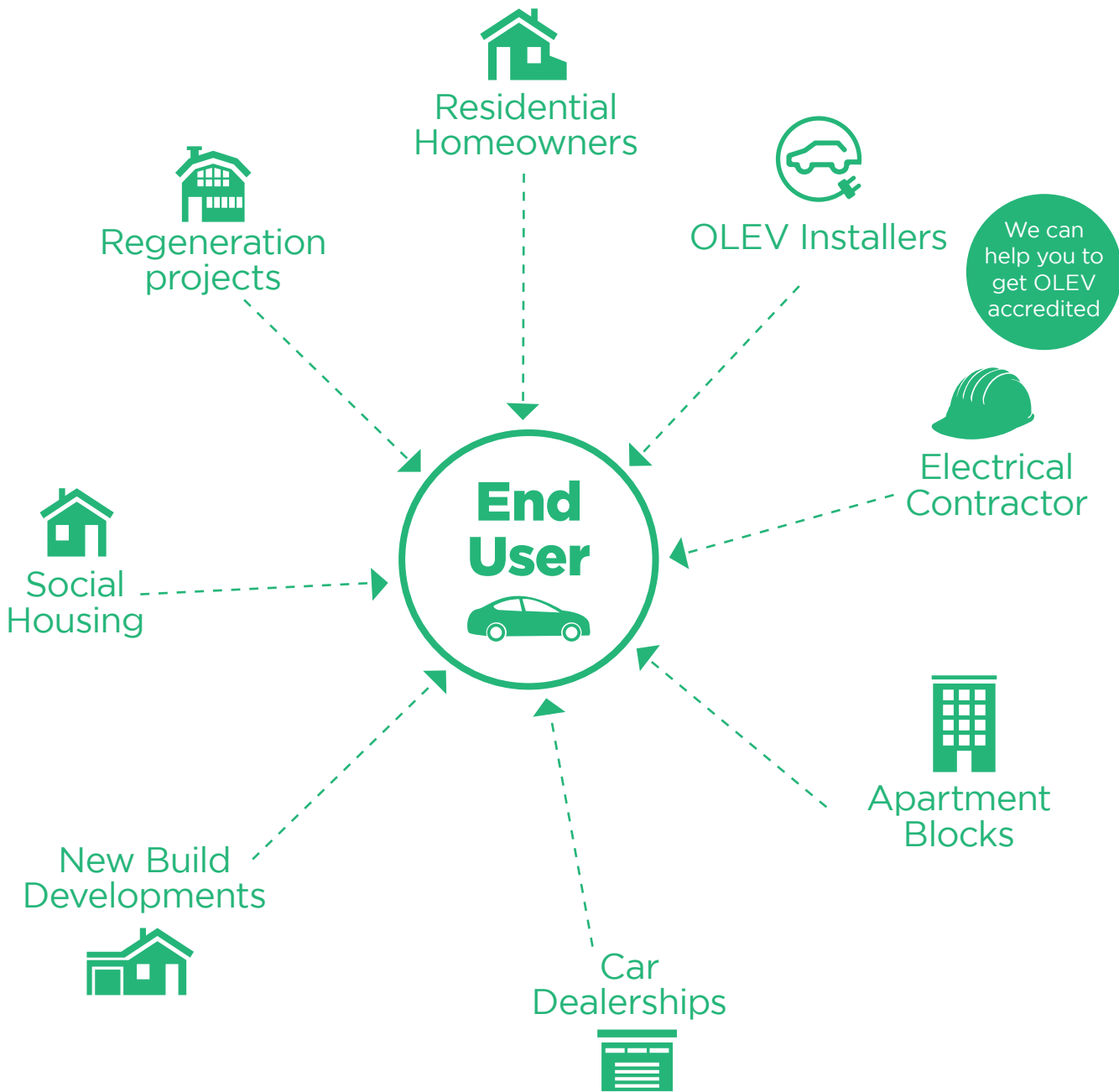
10mm 6491X  
Green/Yellow  
Earth Cable



Mini-Trunking



Earth Rod Clamp



Connecting you to the best electrical vehicle charging products and accessories when and where you need them.

Order online 24/7

Available at 250 Branches

In stock

End to end solution

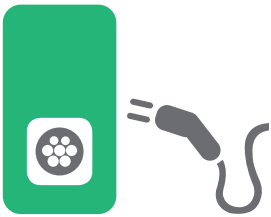
Next day delivery nationwide

Same day delivery

There is the Workplace Charging Scheme (WCS) available for eligible businesses, charities and public-sector organisations who offer ‘free to use’ charging stations. All charging points are socket versions, with access control and smart charging options available (see below right). The charging point owner can use Smart technology to monitor and record EV charging activity and history.

### Charging Point

Wall mounted – single



Single Phase ⚡

16A / 3.7kw

6H

3 Phase ⚡⚡⚡

32A / 7.4kw

3H

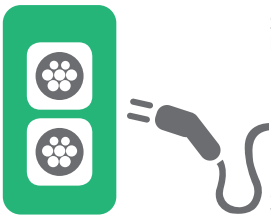
16A / 11kw

2H

32A / 22kw

1H

Wall mounted – dual



Single Phase ⚡

16A / 3.7kw

6H

3 Phase ⚡⚡⚡

32A / 7.4kw

3H

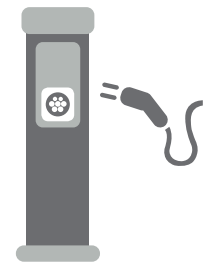
16A / 11kw

2H

32A / 22kw

1H

Ground mounted – single



Single Phase ⚡

16A / 3.7kw

6H

3 Phase ⚡⚡⚡

32A / 7.4kw

3H

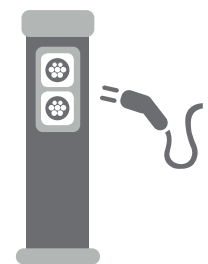
16A / 11kw

2H

32A / 22kw

1H

Ground mounted – dual



Single Phase ⚡

16A / 3.7kw

6H

3 Phase ⚡⚡⚡

32A / 7.4kw

3H

16A / 11kw

2H

32A / 22kw

1H

### Electrical Products Needed



MCB



Cable Clips



6mm 6242Y T&E Cable



3/8" 1200mm Earth Rod



Cable Glands



Light Inspection Pit



10mm 6491X Green/Yellow Earth Cable



Mini-Trunking




Earth Rod Clamp




SWA Cable


Access options available




Key Switch



Mobile Phone Operated




Token Operated




RFID Key Fob Operated

Smart options available



SMART Integration



Host Management



Council owned buildings



Schools / Universities



Hospitals



Offices



Shopping Centres & Retail Parks



Manufacturing Plants



Car Dealerships



Hotels & Guest Houses



Car Parks



Hire Car Companies



Leisure Facilities



OLEV Installers



Park & Ride



Industrial Estates



Transportation

Connecting you to the best electrical vehicle charging products and accessories when and where you need them.

Order online 24/7



Available at 250 Branches



In stock



End to end solution



Next day delivery nationwide



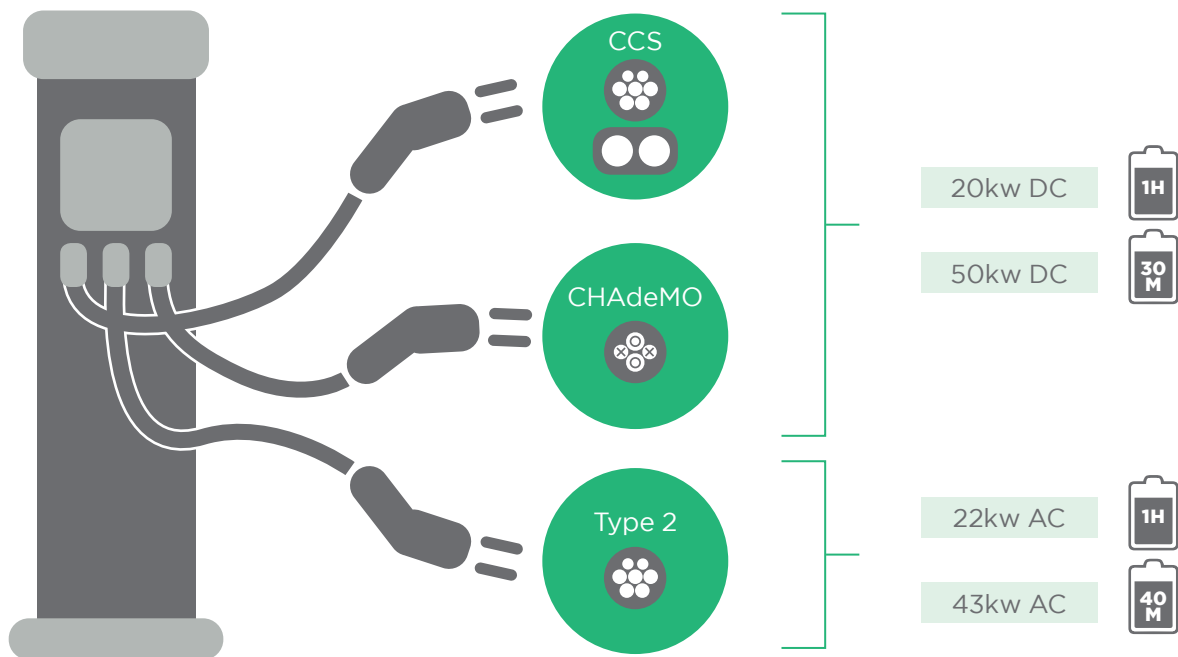
Same day delivery



# WHAT PRODUCTS FOR EV?

The rapid charging points are the most expensive and can provide an 80% charge in around 30 minutes – 1 hour. They are usually found in ‘travel’ places where end users won’t be for long, such as motorway service stations. Like the commercial charging points there are access control and smart charging options and most come with 3 lead types to cover all cars. Rapid charging points are becoming more popular with big companies such as Shell and BP installing them on their petrol forecourts.

## Charging Point



## Electrical Products Needed



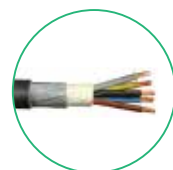
Distribution Board



MCB



Cable Cleats



Armour Cable



Feeder Pillar



Cable Glands



Mains Tail



25mm 6491X Green/Yellow Earth Cable



Underground cable ducting

All images are for representative purposes only

# WHO IS EV FOR?



Motorway Services



Car Parks



Petrol Forecourts



Park & Ride



Shopping Centres



Supermarkets



Car Dealerships



Hire Car Companies



Leisure Facilities



Retail Parks



Hotels & Guest Houses



Transportation

**Connecting you to the best electrical vehicle charging products and accessories when and where you need them.**

Order online 24/7



Available at 250 Branches



In stock



End to end solution



Next day delivery nationwide



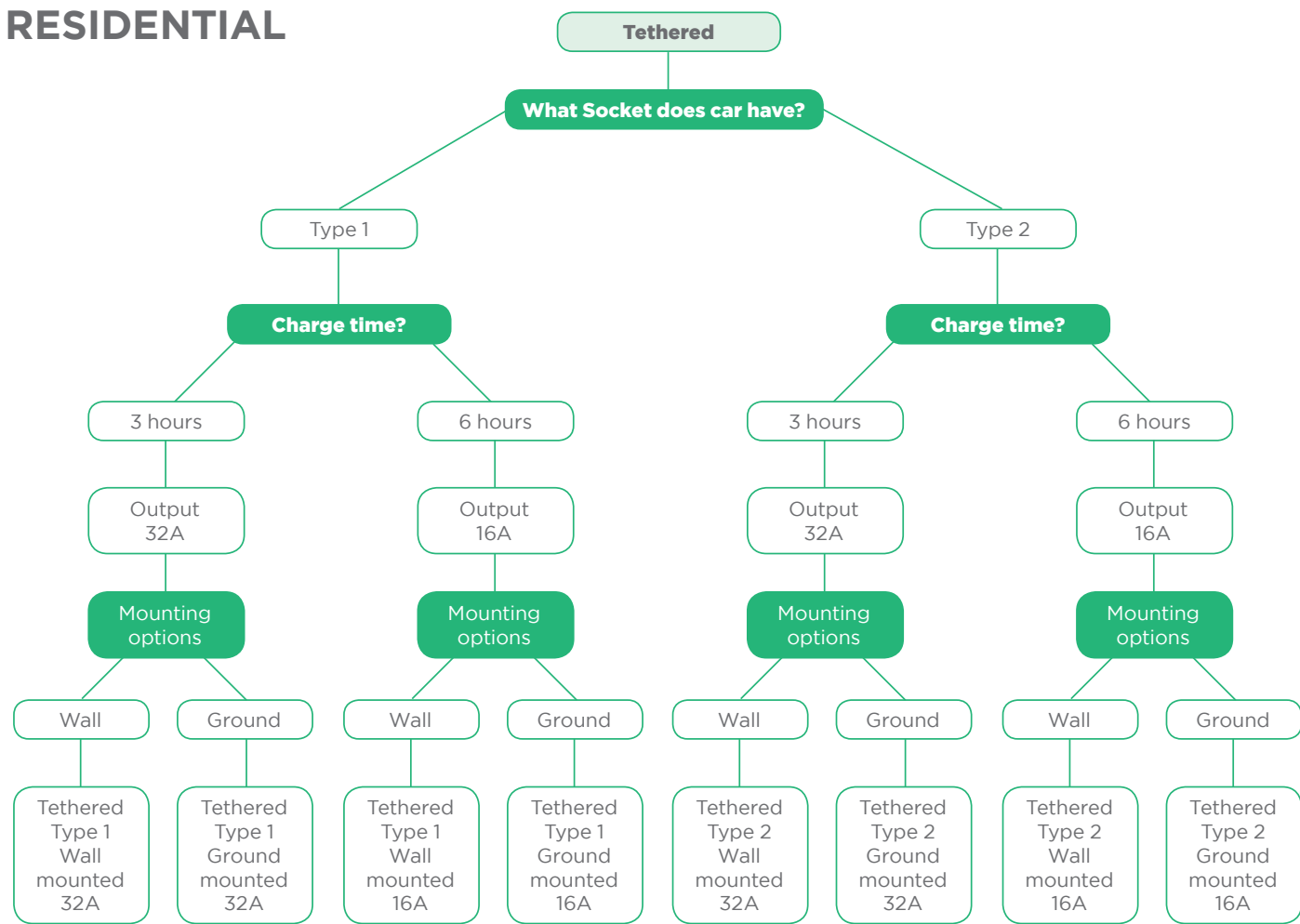
Same day delivery



# THINGS TO THINK ABOUT

Most basic installations that you fit into residential homes can be supplied by your branch and account manager, however, if you need any help with this the Rexel Energy Solutions team are experts in EV and are on hand to guide you through your first few sales. Anything for commercial or rapid customers where the installation can be a little more complex, please refer straight to the RES team. (Tel: 0208 596 7483. Email: rexelrenewables@rexel.co.uk)

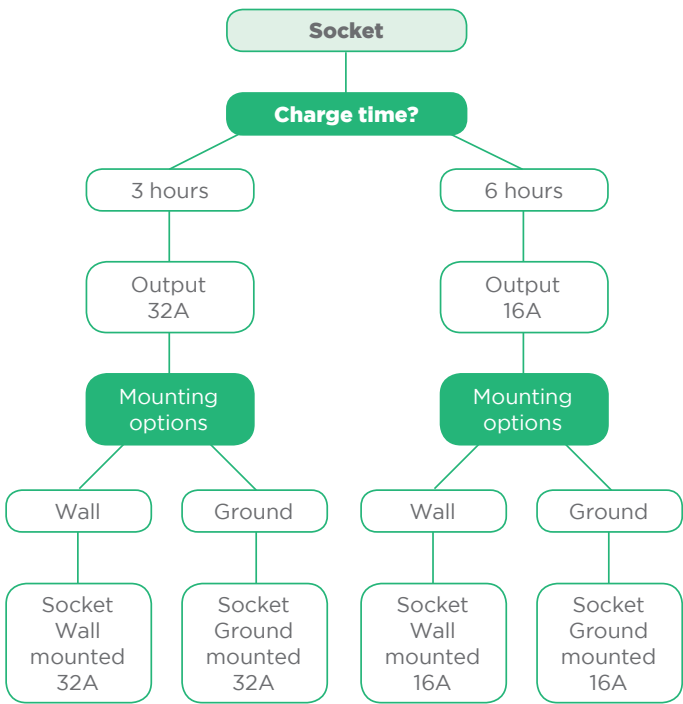
## RESIDENTIAL



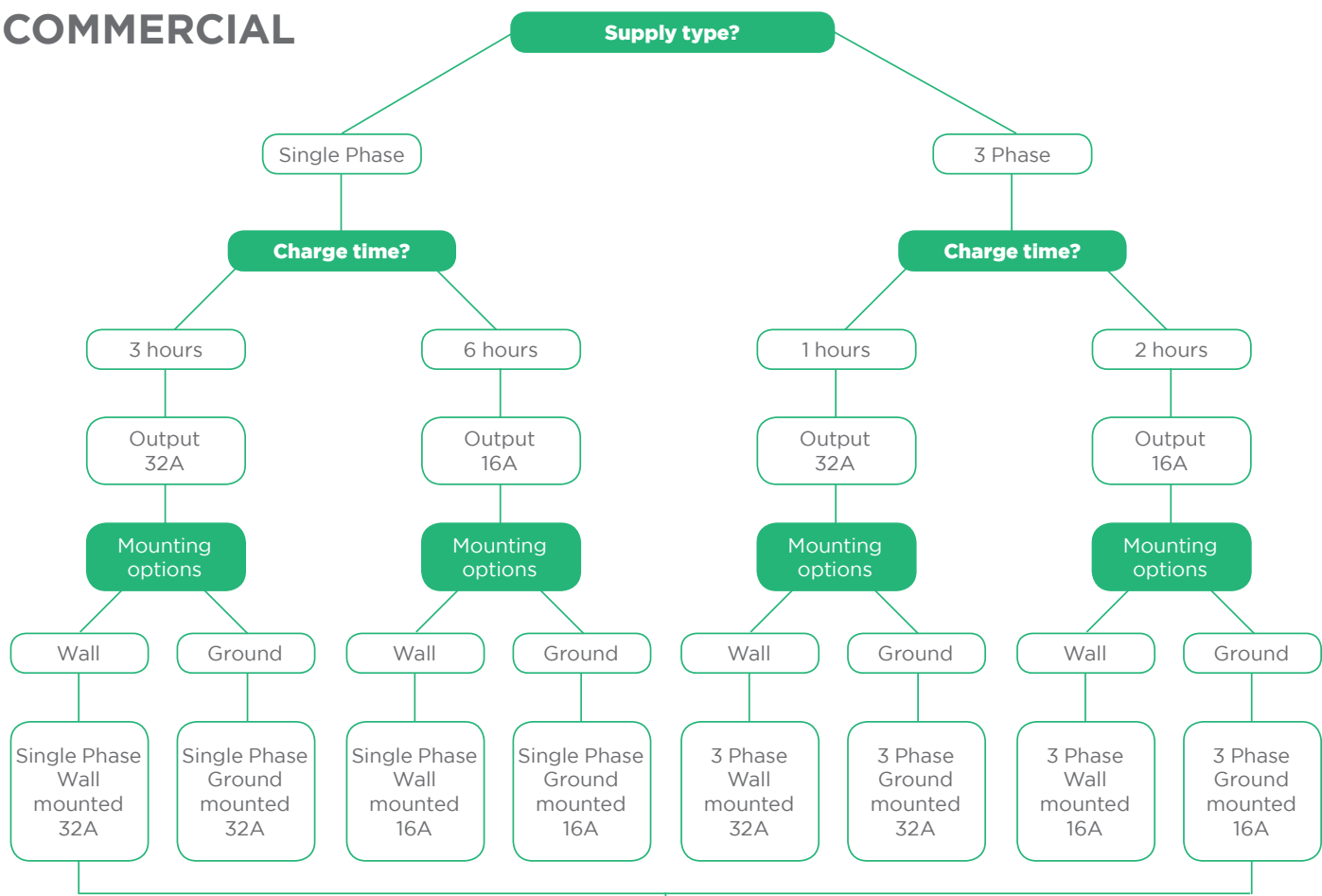
	Pros	Cons
Tethered	Don't need to buy charging cable (integrated into charging point)	Restricted to specific socket type
	Don't have to carry cable in car	If car changes to different socket type new charging point needed
		Visitors with different socket type can't use

	Pros	Cons
Socket	Flexible socket options	Have to attach each time
	Anyone can use charging point	Have to carry cable in car
	Most popular option	

## RESIDENTIAL



## COMMERCIAL



Access options available

Key Switch

Mobile Phone Operated

Token Operated

RFID Key Fob Operated

Smart options available

SMART Integration

Host Management

The Rexel logo consists of the word "Rexel" in a white, sans-serif font, centered within a dark blue rectangular box. Below the box is a thin, horizontal blue line.

Rexel

a world of energy

Rexel UK  
Eagle Court 2,  
Hatchford Brook,  
Hatchford Way,  
Sheldon,  
Birmingham,  
B26 3RZ  
[www.rexel.co.uk](http://www.rexel.co.uk)

RX00022