OPEL

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3+2 YEAR WARRANTY SCHEME

GERMAN PRECISION & ARTISTRY

THE NEW

VIVARO-e

PRODUCT INFORMATION

OPEL

The new Vivaro-e.
Introduction.

The Vivaro-e provides businesses and families alike with leading functionality, familiar design, accessible innovation, passenger car-like comfort and driving behaviour and unparalleled versatility. Building upon what made the diesel-engine Vivaro so successful, the new Vivaro-e adds an electric drivetrain to that long list of benefits and innovation. An extended range, easy charging and great peace of mind make the Vivaro-e even more innovative and desirable and builds upon the success of the car line, with over 1 million diesel variants sold.

The new Vivaro-e feature the following highlights:

Design

Takes on the well-known design features with the following differentiations:

- Specific front grille to signify electric power
- A new electric badge on the back
- A new instrument cluster

Comfort

- Up to 330 km range
- Increased range of up to 477 km[2] in city mode in urban areas with a lot of low speed, stop and go traffic. Energy consumption for electric vehicles generally tends to reduce in cities, as opposed to petrol and diesel-powered vehicles, which consume more in slow moving environments
- Easy to charge via wall box or via Public charging stations.
- Silent yet powerful powertrain
- Vivaro-e offers a class-leading maximum payload of 1000 kg[3] and enclosed cargo compartment with a dimension of up to 2435 x 1258 x 1220mm

Innovation

- Regenerative braking to capture energy while slowing down and stopping
- Electric parking brake as standard
- Portfolio of assistance systems available

Infotainment

- EV cluster design with all EV-related information at a glance
- Infotainment shortcut to all EV-specific pages
- 3.5″ driver information cluster and 7″ infotainment system

Driving dynamics

- Powerful 100 kW powertrain and 132 km/h top speed
- Dynamic drive with increased acceleration and a torque of up to 260 Nm
- Single-speed transmission combined with a regenerative braking system
- 3 drive modes to adapt perfectly to outer conditions:
  - **Power:** for maximum safety and performance when fully loaded
  - **Normal:** for a balanced drive that offers a compromise between performance and energy efficiency
  - **ECO:** for maximum range and energy efficiency

The new Vivaro-e.
Exterior design.

Unmistakably Opel

The Vivaro-e feature distinctive winglets in the headlamps with a wing design and a large Opel Blitz sitting proudly in the middle of the front fascia.

EV-specific design feature

Featured prominently, such as the intermediary radiator grille, the charging hatch at the side and the electric monogram at the back.

Elegant and balanced

With the familiar design, leading functionality and versatility offered by the diesel-engined versions.

Strong and broad proportions

Combined with body-coloured contact points and chrome accents show how bold design can work harmoniously with a sense of elegance and style.

Arguments
- Powerful and dynamic appearance in line with the iconic Opel design philosophy 'Sculptural Artistry meets German Precision'
- Signature 'wing' headlamps with clear Opel design DNA
- EV-specific design features, such as the radiator grille, the charging hatch at the side and the electric monogram at the back

The new Vivaro-e.
Cockpit design.

Interior Vivaro-e Cargo Van Innovation,
fabric Curitiba Tritone Grey/Vinyl Carla Black

A new instrument cluster and EV-specific elements

mark the Vivaro-e as the next generation of vans. The central display has a new shortcut to access electric features and information, such as battery charge and a power meter. The small E-toggle is situated in the lower part of the centre console.

Electric parking brake

as standard will be launched with the electric powertrain first.

Ergonomic drive selector

with intuitive controls is situated in the centre console.

Large display panels make for a truly modern cockpit

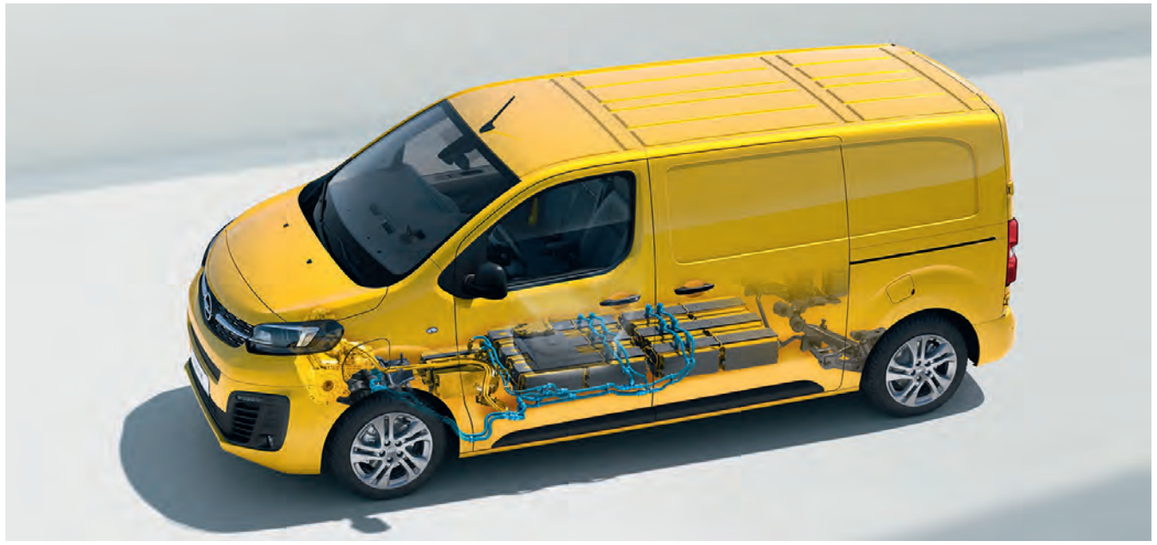
with a 3.5″ Driver Information Centre and a 7″ state-of-the-art infotainment system.

A harmonious, ergonomic and intuitive layout

makes for a truly holistic experience that seamlessly brings together driver and car in the new Vivaro-e interior design.

Arguments
- Clear, ergonomic and intuitive layout
- New instrument cluster with EV-specific features and information in displays
- Electric parking brake as standard

The new Vivaro-e.
Battery, powertrain, chassis and transmission.



Vivaro-e 75-kWh battery

Powertrain

The full-battery electric and inherently silent powertrain of the new Vivaro-e delivers a quiet, relaxing and extremely smooth ride with powerful torque. The electric powertrain of the Vivaro-e has the following properties:

Power	kW/hp	100/134
Torque peak	Nm	260
Acceleration 0–50 km/h	s	n.a.
Acceleration 0–100 km/h	s	11.9–13.3 for 75-kWh battery (vs. 12.0–14.5 s for the diesel engine)
Maximum speed	km/h	132
Transmission		All-electric single-speed drive unit

Possibility to reduce the top speed to expand the range and/or due to security reasons.

Battery

The battery has the following properties:

Battery energy	kWh	75
Voltage range	V	300–450
Battery pack construction		75 kWh: 27 modules/324 cells
Battery thermal management		Glycol water cooling
Weight	kg	534 (75-kWh battery)
Range (WLTP)[1]	km	Up to 330 km with 75-kWh battery
Battery warranty		8 years/160.000 km (70% capacity)

The battery is integrated into the chassis of the Vivaro-e sits below the front and rear seat rows in order to ensure a maximum amount of boot space. The battery pack is protected from crashes by the special crash guards and is housed in a secure and fireproof encasing that is additionally cooled.

Charging time

DC (50kW) (0-100%) 1.5 hours / AC 6.8 Hours with a 11kW onboard charger

Drive mode

The driver can determine the driving style by selecting one of the following modes:

- **Power:** with high power reserves for the highest top speed and torque. Recommended at full load.
- **Normal:** for a balanced drive that offers a compromise between performance and energy efficiency.
- **ECO:** for maximum range and energy efficiency. The ECO mode deactivates all unnecessary energy-consuming features, reduces the top speed, torque and overall performance and limits the power of the air conditioning.

Arguments
- Fully electric, zero-emission driving
- Fun to drive
- Regenerative braking to partially recharge the battery
- Selectable drive modes

E-toggle

As the powertrain is an all-electric single-speed drive unit, there is no need for multiple gears. Instead, the shifter lets the driver select from the following:
- Park
- Reverse
- Neutral
- Drive
- Increased regenerative braking

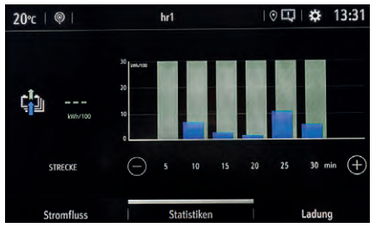
Regenerative braking

When driving, as soon as you lift your foot off the accelerator pedal, the regenerative braking system recaptures kinetic energy from braking and converts that power into even more range. In its highest setting (B mode), most short journeys can be driven without use of traditional brakes, reducing wear and associated maintenance costs.

The new Vivaro-e.
Vehicle data monitors.

Flow

The flow display shows the driver how much of the battery has been used up and how and when it is being charged from the regenerative braking system.
- **Green:** highlights the battery and the state of charge
- **Blue:** highlights the influence of the regenerative braking system



Statistics

The statistics page displays the battery usage data over a period of time using dedicated graphs according to the energy source.
- **Green:** battery energy usage
- **Blue:** energy regained through the regenerative braking system

Charge

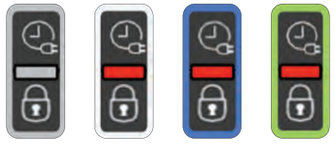
The charge pages display an image of the charge port with the corresponding LED charge status indication lights. Besides displaying the charge status, the menu allows the driver to choose from the following:
- **Immediate charging:** the standard setting immediately starts charging as soon as the vehicle is docked for charging.
- **Delayed charging:** this is especially useful for when cheaper electric rates are desired, i.e. charging at night. This can be done by entering a charging starting time. The programme memorizes the setting preventing the customer from having to enter it on a daily basis.

Note: after selecting the delayed charging mode, the push button of the charging flap needs to be pressed to confirm the choice. The charging options can also be controlled via the myOpel app.

Charging indicator

The charging flap also acts as a user interface and with its coloured LED lights signals the charging status.
- **White:** welcome light that helps to light up the area, especially useful in dark conditions
- **Flashing green:** charging in progress
- **Solid green:** charging complete
- **Solid blue:** delayed charging toggled; changes to flashing green when charging commences and solid green when charging is complete
- **Solid red:** malfunction

Additionally, the charging flap also includes the following:
- **Delayed charging activation:** a push button which is used to confirm the activation
- **Padlock LED:** the padlock lights when the cable is correctly plugged in and locked



The new Vivaro-e is filled with transparent and easy-to-understand vehicle data monitors that provide the driver with the best possible overview in order to easily achieve efficiency and ensure maximum range.

e-INFO instrument panel

The new Vivaro-e provide a dedicated control panel with all the information you need, providing a complete digital overview of your journey right at your fingertips. The special e-INFO instrument panel gives a clean, graphic visualization in real-time.
- **Electric vehicle gauge:**
  - **Energy-usage zone** displays how much of the energy is currently being used up. The higher the value, the more energy is being used. The highlighted 'ECO' field gives drivers a visual guide and target to help maximize the efficiency and range.
  - **Charge zone** indicates that the battery is being partially charged by the energy recovery system.
  - **Speedometer**
  - **Battery charge** displays the overall charge of the battery.
  - **On-board computer** displays EV-specific information for a better overview in addition to the regular information on speed, range and other data.

Arguments
- Easy-to-understand and intuitive app for EV-specific controls
- Seamless integration between EV-specific functions and myOpel app
- Practical and flexible EV-specific functions that help to save money, time and effort

The new Vivaro-e.
Services availability by infotainment.

Opel electric vehicles have dedicated displays that give the driver a complete overview of energy consumption, range and charge levels. Electric vehicle services, such as thermal preconditioning and battery charging functions, are available through the infotainment system in certain cases. The table below shows the displays and services that are available for the various infotainment systems.

LEV services by infotainment	
'e' infotainment shortcut key Dedicated infotainment shortcut key for LEV-specific infotainment pages	
	**Energy flow visualization** Simplified real-time visualization of vehicle powerflow incl. state of charge and regeneration flow
	**Energy stats visualization** Simplified bar chart statistics outlining vehicle energy consumption (green) & regeneration levels (blue) and progression during the journey
Trip/on-board computer Track consumption, distance travelled and average speed information during a specific trip/journey; 2 journeys possible at any one time	
	**Deferred charging options** Times can be selected for deferred/delayed charging, allowing for optimization of charging periods (i.e. charging at low tariff times, etc.)
Battery/range check Enables EV range and state of charge to be remotely checked via smartphone quickly and conveniently	

Interwell.
Wallbox: Commander 2

Wallbox Commander 2

Commander 2 is an advanced, intelligent charging system for plug-in vehicles, designed for semi-public and business charging locations. It is a new and improved second-generation design with a touch screen interface, incorporating multi-user management, internal DC leakage protection and smart Power Sharing functionality.

Commander 2 is the most user-friendly charger in Interwell's portfolio and perfect for a multi-user fleet environment. Commander 2 offers phase balancing, a feature that maximizes the available power by selecting the phase with the lowest load. It is no longer the car that decides on which phase it will charge, your charger controls the process and redirects all cars to the right phase while maintaining a balanced power grid with minimum effort and maximum results.

Purchase comes with standard installation of EV Charger onto an isolator. It will include emergency stop button with contactor and RCD Type A for protection and Licensed Electrical Worker (LEW) sign off/ endorsement on installation as per EMA (Electric Market Authority) guidelines.

Mode-3 cable

Power Rating

- Single Phase 7.4kW
- Three Phase 22kW

**Vivaro-e comes with a 11kw onboard charger*

Activation Method

- Pin Code via Touchscreen
- RFID Card
- Mobile App via Bluetooth

Charging Cable Length

5m

Dimension

221x 152 x 115 mm

Connectivity

- Wi-fi
- 4G option with device
- Ethernet

Recommended Maintenance Frequency

- Quarterly for Hardware
- Over the air updates to software & firmware as long as charger is connected to internet

Warranty Period

24 months from date of installation

myWallbox Software:

- Built-in Charging Management System withanalytics and reporting.
- Accessible via Web Browser or Mobile App.
- Over the air live updates on charger status and charge session.
- Able to control charging output over the air via Mobile App or Web browser.
- Easy to access reports and data over the internet through Mobile App or Web Browser
- Able to schedule charging sessions for charge to happen on

FAQ

1. **Can the charger be used to charge all brands of Electric Vehicles (EV)?**
   Yes, It is compulsory for all EVs and AC EV charger in Singapore to have Type 2 connectors.

2. **Do we need to apply for any permit to have the EV Charger installed?**
   No, there is no need for any permit to be applied. A Licensed Electrical Worker (LEW) will have to endorse and sign off on the installation once the installation is complete as per EMA guidelines.

3. **How much power do we need in order to install 1 EV Charger?**
   We would generally require 32A of either Single or Three phase supply.

4. **Does the chargers require maintenance?**
   Four times a year maintenance will have to be carried out and endorsed by a LEW as well as per EMA guidelines.

5. **Can an unauthorized person utilize the chargers or stop the charging of another user?**
   No, it is not possible for unauthorized person to start a charge or interrupt another user's charge session.

6. **How do I prevent users from hogging the lots after charging?**
   myWallbox and other 3rd party payment & management systems has got penalty fees in place to continue charging the user if the user does not have unplug the connector after the charge session is completed.

7. **Do we have to inform SCDF or place any fire extinguishers at the place of installation of the EV chargers?**
   Currently there are no guidelines or rules in place yet. But we generally advise to have 1 fire extinguisher accessible for assurance.

8. **Can outsiders temper with the charging cable/connector on the Electric Vehicle (EV) to stop the charge session?**
   No, the connector is locked in placed once it is first connected to the EV. In order for the connector to be unlocked, the user has to first unlock or disengage the lock on the EV itself.

9. **Does the charger continue dispensing electricity even though the vehicle is already full?**
   No, the charger is intelligent enough to recognize that the battery of the vehicle is full and will stop the charging session.

10. **Can I charge my vehicle in the rain?**
    Charging can be done in the rain with no risk as the charger and its connectors are IP rated to IP 54.
    One thing to take note would be to not submerge the connector into water for an extended period of time as the connectors may be damaged by rust.

The new Vivaro-e.
Your guide to making your Vivaro-e go further.

First things first: driving an electric car is easier than you think. Nevertheless, there are a few things you should consider that are different from driving a car with a combustion engine.

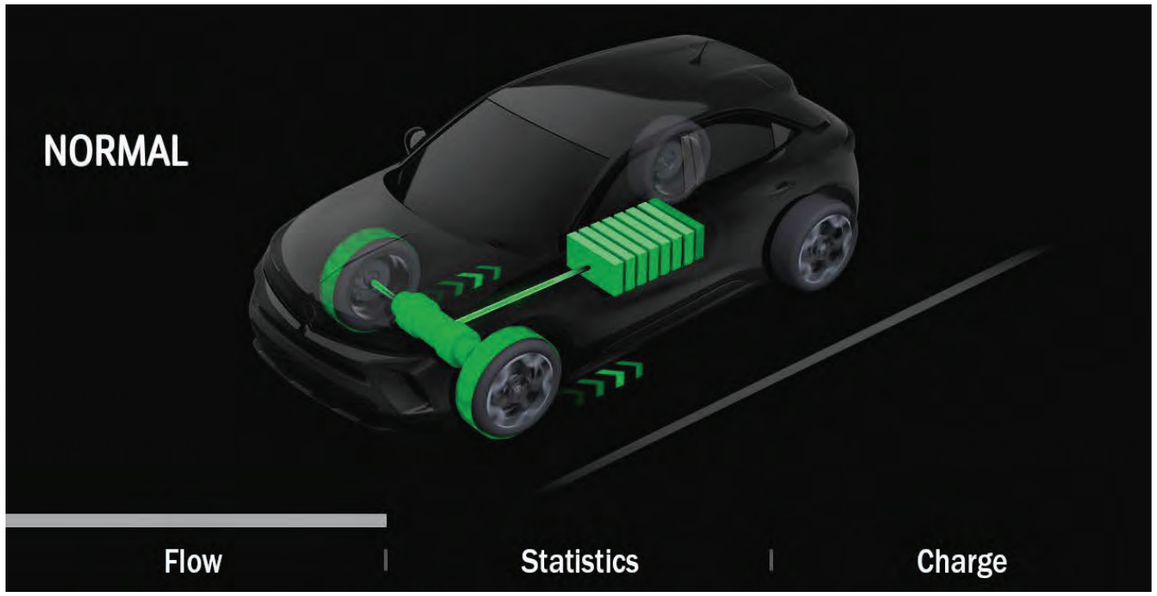
Range Management
The range of an electric vehicle depends on conditions of use and on environmental factors. Things such as the speed you drive, your driving style, whether you have the heating or air conditioning on, the vehicle load and tyre pressure will affect your range. Features such as regenerative braking and pre-conditioning while your vehicle is connceted to the grid increase the range of your vehicle. The on-board computer updates the predicted range based on data stored over time. It's possible to get a prediction after just a few kilometres of driving.

The maximum range in daily use is mainly influenced by factors such as personal driving style, route conditions, outside temperature, use of heating and air conditioning, thermal preconditioning and additional weight.

The new Worldwide harmonized Light vehicles Test Procedure (WLTP) takes into account situations that are more in line with everyday life than the previous New European Driving Cycle (NEDC) standard. It allows us to better estimate daily consumption. Even though WLTP is still a laboratory test, the procedure was introduced to provide customers with consumption data that is closer to actual driving behaviour, which provides for more transparency.

WLTP includes:
- More realistic driving dynamics and outside temperature
- Larger measuring distances
- Higher average and maximum speeds
- Less idle time
- More braking and acceleration

The main factors.
That have an impact on the range.



Speed
The speed at which you drive is the single most important factor when it comes to range. For example, at a constant speed of 130 km/h, the range of a full electric vehicle is reduced by half.

Thermal comfort
There can be a difference in range of up to 35 % between hot and cold weathers as a result of having to cool or heat your car. Pre-conditioning your vehicle is one of the most efficient ways to increase the range in various seasons.

Driving behaviour
Driving behaviour also influences energy consumption and range. By driving smoothly, carefully and by using regenerative braking, you can increase your range by up to 15 %.

Other factors
Carrying several passengers can affect the range, as the overall weight of the vehicle increases, and using many electrical features at the same time, such as lights, e-motors etc. can also be a factor..

SMALL STEPS CAN MAKE A BIG DIFFERENCE IN MAKING YOUR BATTERY LAST LONGER AND TAKE YOU FURTHER.

Temperature and usage

When in use, batteries are cooled to 15 °C to perform in all climates, to maintain maximum efficiency and improve their lifespan. High temperature may permanently reduce the performance: avoid exposure to ambient temperatures above +60 °C and below -30 °C and ideally store the car in an average temperature range.Avoid dynamic acceleration until the temperature of the batteries has reached standard operation conditions.

Temperature influence on performance

The charger will automatically adapt the charging rate to the surrounding conditions. Since electrical resistance is higher at low temperature, this means that loading times will increase when it's cold. When it's hot, charging times may reduce slightly.

Other usage

The battery is designed specifically to supply energy to the car, other uses must be approved by Opel.

TECHNICAL DATA

	VIVARO-e
ENGINE & TRANSMISSION	
Engine Type	Permanent Magnet Synchronous Motor
Vehicle Type	Electric
Transmission Type	All-electric Single Speed Drive Unit
Battery Type	Lithium-ion Polymer
Max Driving Range	330km (WLTP)
Acceleration 0-100km/h	11.9
Top Speed km/h	132
Power kW/rpm	100/5500
Torque Nm/rpm	260/3674
VEHICLE EFFICIENCY	
Energy Consumption	23.3-29.5kWh/100km
Battery Capacity	75kWh
Charging Time	**DC (50kW) (0-100%) 1.5 hours / AC 6.8 Hours with a 11kW onboard charger**
Full Tank Price (State of charge 0-100%)	$36.30 (Est.)
EXTERIOR DIMENSION	
Length/Width/Height mm	4959/1920/1940
Wheelbase mm	3275
Tyre Size	215/65R16C
WEIGHT & VOLUME	
Unladen Weight kg	2025
Payload kg	1000
Load Space m3	6.1
Width of Cargo Space mm	1258
Length of Cargo Space mm	2435
Height of Enclosed Cargo Space mm	1220

FULLY ELECTRIC

With the added benefit of the 5 zeros (Zero emissions, zero odor, zero vibration, zero noise & zero gear shifting), going electric means low maintenance and running costs. Vivaro-e is also eligible for the government cash grant incentive. Helping make that switch to electric even easier.

ZERO EMISSION · ZERO ODOR · ZERO NOISE · ZERO VIBRATION · ZERO GEAR SHIFTING · LOWER COSTS · GOVERNMENT CASH GRANT INCENTIVE

COST COMPARISON

	VIVARO-e	PETROL VAN	DIESEL VAN
Average Daily Mileage	200km	200km	200km
Average Daily Energy Consumption (per 200km)	59 kWh	20L	15.4L
Fuel Per Unit (AC Charging)	$0.3867 / kWh	$2.413 / L	$1.957 / L
Fuel Per Unit (DC Charging)	$0.4663 / kWh	$2.413 / L	$1.957 / L
Annual Cost of Fuel	$8,327	$17,615	$11,000
Full Tank Price	$36.30 (330km)	$192 (800km)	$156 (1040km)
Fuel Cost (per km)	$0.11	$0.24	$0.15

*For illustrative purposes only

STANDARD SPECIFICATIONS

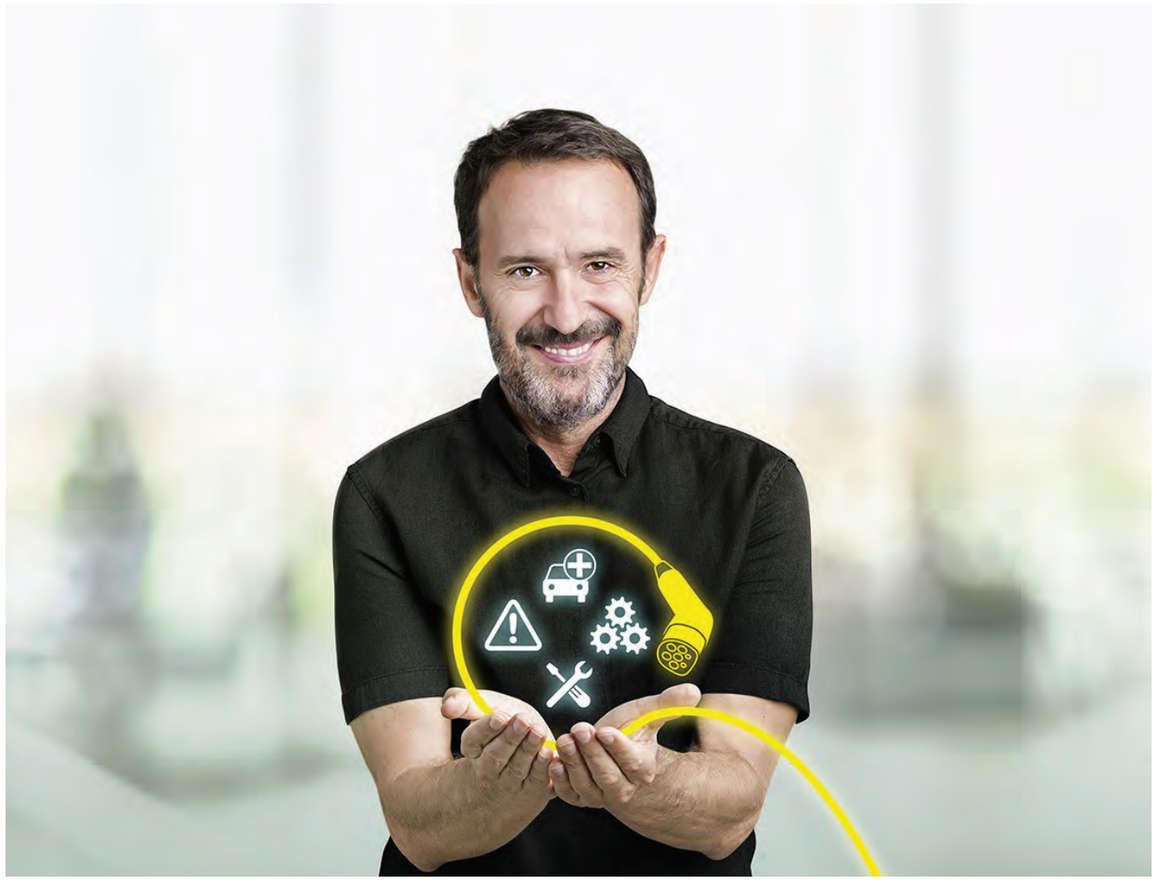
	VIVARO-e
EXTERIOR EQUIPMENT	
Halogen Headlamps	•
INTERIOR EQUIPMENT	
Keyless Start-Stop System	•
Fixed Bulkhead	•
IntelliLink® Infotainment with Apple CarPlay™ & Android Auto	•
7" IntelliLink® Touch Screen Infotainment	•
3.5" Driver Information System	•
Climate Control	•
SAFETY EQUIPMENT	
Driver & Passenger Airbags	•
Driver Attention Alert	•
Cruise Control	•
Rear Park Assist	•
180° Rear View Camera	•

There may be minor equipment changes due to model year change.

EXTERIOR COLOURS

White Jade · Gris Artense · Gris Platinum · Diamond Black

Opel Service Exclusive.



Opel Service Exclusive Entitlements

- Service package for 3 years with option to extend after package expiry
- Programmes and activities for customers held annually
- 24-hour roadside assistance
- 3 + 2 year warranty scheme to give you peace of mind
- Assurance of trained service technicians, quality workmanship and genuine Opel parts

Warranty

With a 3 + 2 year warranty scheme, Opel Service Exclusive provides you with peace of mind right from the start. Opel's warranty comes with the assurance of trained service technicians, quality workmanship and genuine Opel parts.

* Opel's 3 + 2 year warranty scheme consists of a 3 year factory warranty + 2 year local warranty by Auto Germany. Warranty terms and conditions apply.

High Voltage Battery

The high voltage batteries in Opel vehicles are covered by a eight-year warranty, limited to a maximum distance of 160,000km, whichever is earlier.

24/7 Roadside Assistance

Opel Roadside Assistance lets you travel with complete peace of mind. A stress-free motoring experience like having one's own personal assistant,a mere phone call away:
24-hour Roadside Assistance : 9423 0863
24-hour Accident Hotline : 9247 8842
24-hour Towing Service : 9729 7337

Auto Germany reserves the right to amend or discontinue any of the privileges at any time.The Opel Service Exclusive package is not a permanent feature.