

# New generation of Efficient buses

100% electric  
buses.

 **Irizar** *e-mobility*



FOR A  
BETTER  
LIFE.



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FOR A BETTER LIFE

We are part of creating  
a better world

We seek to create a positive **impact** on people’s lives, not only through technology, but also by improving the environment in which we live. We promote ecological, accessible, efficient, safe and connected mobility, contributing to the well-being of people and cities while caring for the planet.



Decarbonisation



Energy efficiency



Digitalisation



IRIZAR E-MOBILITY  
INSIGHTS



**More than 1,600**  
fully electric city  
buses delivered



**Annual savings**  
of **53 TN CO2**  
**eq** for each bus  
manufactured



Present in **more**  
**than 55 cities**, 16  
countries and 2  
continents



**55% reduction** in  
carbon footprint  
since 2021



**High customer**  
**loyalty**, recurring  
orders



**Custom after-sales**  
**service** in all the  
cities where our  
vehicles operate

# NEW GENERATION OF BUSES

## EFFICIENT

True to our commitment to offering **sustainable and high-performance solutions**, we are taking a new step in the evolution of our vehicles with the presentation of a new generation of electric buses, now integrated into the Efficient range.

These new models continue the **legacy of efficiency and sustainability** that defines Irizar vehicles.



This new generation has been designed based on the more than **15 years of experience** we have in the electric city bus sector.



We have taken **RMAS indicators** (Reliability, Maintenance, Availability, Safety) as a reference.



We have mainly focused on **improving TCO and operability**.



With this Efficient platform, we take a qualitative and quantitative leap, positioning ourselves at the **technological forefront in electromobility**.

## A new generation

### More efficient. More Irizar.



+ Capacity  
+ Safety

+ Accessible  
+ Efficient

+ Comfortable  
+ Sustainable





## + CAPACITY

**Up to 1,000 kg weight reduction**  
**5% more capacity for passengers**

This new generation of buses come to the market with a **weight reduction** of close to 1,000 kg. This is mainly possible thanks to a new structure concept.

As a result of the weight reduction, we have **increased the capacity of passengers** by 5%, compared to the previous platform. The 12-metre models have a capacity of up to 105 people, while, in the 18-metre version, we can carry up to 150 people.

\*Variable data depending on the MMA of each country and the number and type of batteries installed in the bus



## + ACCESSIBLE

**Inclusive vehicles that embrace diversity**

Thanks to their innovative design, our buses offer maximum accessibility. They now have **wider doors and corridors**, and optimised passenger flows. We also offer the option of incorporating a ramp in door 1. All this allows us to ensure easier, more comfortable and more inclusive access.



+ COMFORTABLE

Designed for each person to **enjoy the trip**



In this new generation, we have focused on creating a comfortable and safe space for both the driver and the passengers.

The well-being of the driver is fundamental, which is why we have **improved** the driving area's independent **air conditioning**, guaranteeing an optimal environment at all times.

In addition, we have **digitalised** the driver's seat, integrating advanced technology to facilitate vehicle management.

Thanks to the decrease in height and weight, the vehicle is more agile, which **improves driving dynamics**.

In this new generation, the articulated bus is shorter than the previous generation, which considerably **reduces** its **turning radius**.

Our buses are designed to improve the travel experience of passengers, ensuring comfort on public transport. This new generation goes a step further, offering **more space** and **greater interior luminosity**, creating a more comfortable and pleasant environment.

In addition, these vehicles are designed to offer **optimal performance** in various weather conditions. Whether in areas of extreme cold or high temperatures, our solutions guarantee comfort, protection and efficiency, **complying** with the limits of thermal homogeneity established by the **VDV 236** recommendation.



+ SAFETY

Your **peace** of mind comes first. That's why **safety is our top priority**

Our buses comply with the industry's most demanding regulations in force, guaranteeing maximum safety.

| <br>Tools to avoid accidents                                                                                                                                                    | <br>Guaranteed protection for everybody in the vehicle                                                                                                                      | <br>Other security systems                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• R159 - MOIS</li><li>• R151 - BSIS</li><li>• R138 - AVAS</li><li>• 2021/1958 - ISA</li><li>• 2021/1341 - DDAW</li><li>• R(UE) 2023/2590 - ADDW</li><li>• R141 - TPMS</li><li>• R130 - Lane Departure Warning System</li></ul> | <ul style="list-style-type: none"><li>• R29 - Cabin occupant protection</li><li>• R66/02 - Roll-over protection regulation</li><li>• R118 - Fire safety regulation</li><li>• ESC - Stability control</li><li>• Articulated bus angle management system</li></ul> | <ul style="list-style-type: none"><li>• R155 &amp; R156 - Cibersecurity</li><li>• Secure Start on slope</li><li>• ABS, ASR, EBS</li></ul> |



+ EFFICIENT

Up to **10% reduction** in energy consumption  
More than **400 km** of range

The new buses have a **more compact engine**. We have incorporated a **new generation** of more efficient **batteries** and a **new thermal management system**. These improvements decrease energy consumption by up to 10% compared to the previous generation. Additionally, they offer a range of **over 400 kilometres**, ensuring a full day of driving.

 **Minimum operating cost**

The optimised design for access to the compartments and different components not only facilitates their re-vision, but also considerably reduces repair and main-tenance costs.



+ SUSTAINABLE

50% more use of **recycled source materials**

In our new bus platform, we have achieved a significant advance in the use of recycle materials, twice as much as the previous platform. This step reflects our commitment to sustainability and the future of transportation.



**More than 2.5 tons**  
of recycled source  
material

**Over 90%**  
recyclability rate

# IRIZAR IE TRAM

## The evolution of an iconic vehicle

In this new generation, we have preserved the **distinctive identity** of the Irizar ie tram. Its exterior design, which has captivated modern cities, remains unchanged, offering an **elegant and cutting-edge** appearance that continues to be **synonymous with innovation and technology**.

To enhance visibility and provide the driver with a panoramic view, we have redesigned the front section. This improvement delivers a **wider field of vision**, increasing both safety and driving comfort.

The doors are now **wider** compared to the previous version, making boarding easier and quicker for all passengers. In addition, this new vehicle is more **agile** thanks to its reduced height and weight, allowing unrestricted access to historic and urban areas with height limitations.

The Irizar ie tram stands out as the ideal option for cities looking to modernise their transport infrastructure in a **sustainable and efficient** way.



### Maintenance improvement

Given the importance of daily maintenance tasks, we have carried out a comprehensive study to reduce both maintenance costs and times. As a result, we have implemented significant improvements in access to the different components and made it easier to replace bodywork elements.



## The *Wow* effect that makes the difference



### The perimeter ring

One of the most significant characteristics of its design is the chrome perimeter arc that flows all around the volume of the vehicle and frames the large glazed surface of the sides.



### The front

Reflects fluidity and elegance. Its large glazed surface, an evocative throwback to a tram, alongside the full LED optics integrated into the perimeter rings confer a vanguard quality and impetus that is at once technological and rational on the whole.



### The rear

The rear is another aesthetic wager, bridging the rupture with the cubism of the bus.



### The hubcaps

Attention was paid to the smallest details to achieve the aesthetics of a tram.

# IRIZAR IE BUS

## Character in every detail

The new Irizar ie bus redefines mobility with a design that blends character, elegance and functionality. Every line and every detail has been carefully designed to show personality and style.



Marked lines

The lines that make up the exterior of the new Irizar ie bus are now sharper and more marked, with more character, highlighting the use of elements that evoke our coach models, such as optics and rear lights.



A more defined frontal aesthetic

In the front we mark elements such as the license plate holder and the fog lamp space by differentiating them in black, making them features that define the character of the new design.



Connected items

On the sides of the vehicle, we have maximised the space of the side windows to generate a wide rectangular space with the windows' dark colour, thus unifying, in a single visual element, windows, side panels and access doors. The vertices of this rectangle, parallel to the upper area of the vehicle, define the lines that run along the road from the front windscreen pillar to the rear windscreen pillar, passing through the roof, visually connecting these three elements.

## Customise it to your liking with endless options to suit your style

The interior design allows the incorporation of a selection of premium options. Among them, you can choose low windows, side lighting or screens in the ducts, among other options. These features are designed to improve both the aesthetics and the functionality of the interior.



# NEW GENERATION OF BATTERIES



At Irizar e-mobility, we **design and manufacture** our own 100% modular and flexible battery systems in Aduna.

We combine the advantages of **three battery technologies** and optimise both the **quantity and location of the packs** to offer a customised solution that adapts to the specific needs of each customer.

 **SAFER**

Compliance to R100.03

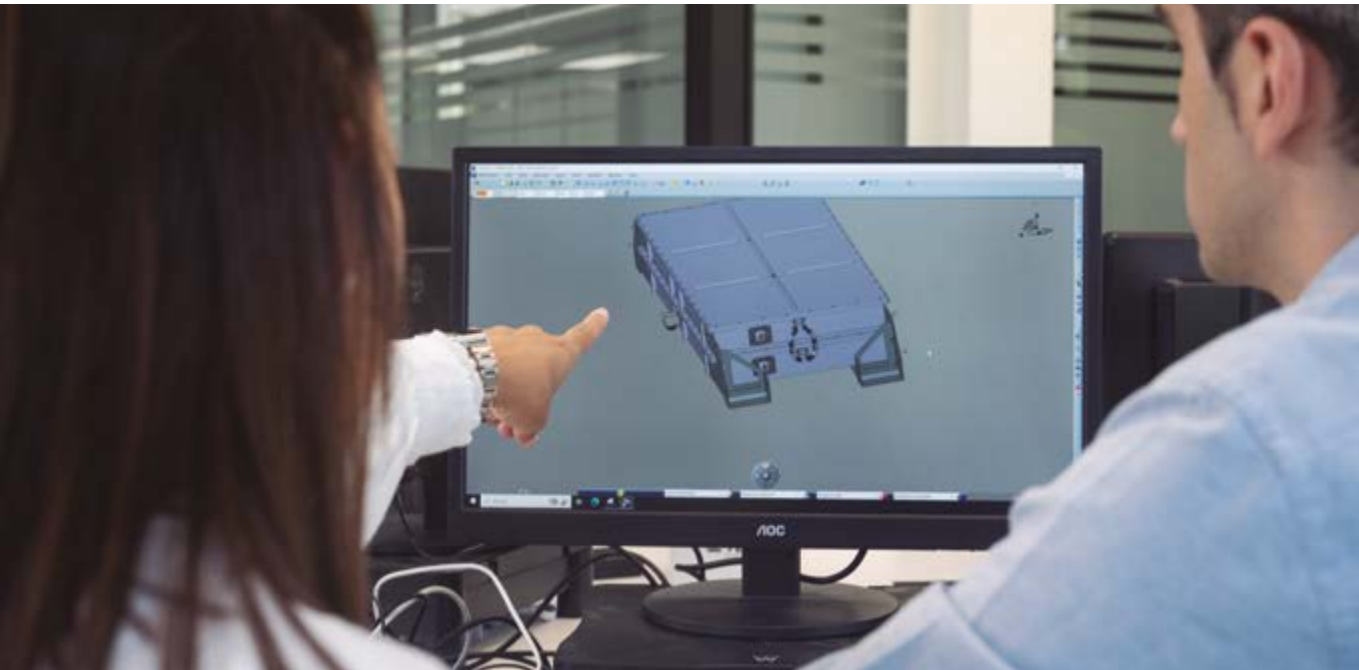
Integration of security event **detection** strategies

Integration of event **extinguishing** elements

Control strategies for the **optimisation** of the expected life

| <br>Slow charging                                                                 | <br>Fast charging                                                                                                                        | <br>Ultra-fast charging                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Medium-high autonomy operations based on a slow charging process (depot).</li><li>• High energy density batteries.</li></ul> | <ul style="list-style-type: none"><li>• High autonomy operations based on one or two intraday fast charging processes (up to 300 kW).</li><li>• Batteries with a medium balance between energy density and power.</li></ul> | <ul style="list-style-type: none"><li>• High autonomy operations based on many intraday ultra-fast charging processes (up to 600 kW).</li><li>• High power density batteries.</li></ul> |

**More than 450 MWh installed with batteries developed and manufactured in our facilities**



**We transform the first life of a battery into the beginning of an ecological solution**



**We have carried out several second life battery projects aimed at stationary applications.**

# OUR CHARGING SOLUTIONS ARE INTEROPERABLE



We offer **different charging options** to provide solutions to the different conditioning factors clients face in terms of power limits, as well as space and operating restrictions.



| <br>In-depot charging                                | <br>Pantograph in depot                                                                                                                         | <br>Intelligent charging system                                                                                                         | <br>Opportunity charging                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available from 50 kW to 180 kW, both in outdoor and indoor models. These chargers allow up to 3 vehicles to be charged simultaneously. | Complete automation of slow loading in garages through the use of pantographs. This alternative solution reduces the presence of cables on the floor, therefore improving operator safety. It results in an optimisation of space. | It is a customised solution that efficiently manages all charging conditions / restrictions in the depot. The system identifies the fleet's different charging requirements in order to optimise the total power required. | The charger's power can vary between 450 kW and 600 kW, both for the roof-mounted pantograph and for the inverted pantograph. Recommended when the vehicle has a reduced autonomy and needs to charge during the journey, being able to operate 24/7. |

Our charging solutions comply with the following international standards:  
ISO 15118, IEC 61851-23, EN 50696, IEC 62196-3, VDV 261, DIN 70121, OppCharge

# FLEET MANAGEMENT



We integrate fleet management solutions with the latest technologies on the market that are fully customisable to meet the needs of each customer.

Objective of the fleet management tools:

| <br>Reduce costs | <br>Improve safety | <br>Increase in the quality of the transport service | <br>Achieve the highest profitability of the fleet |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

# A BENCHMARK AFTER-SALES SERVICE IN THE SECTOR



## Technical support

Technical support is in our DNA and is an essential part of the development of each of our projects. Our highly trained team is available to offer you **personalised technical support** at all times.

**Extensive network** of Irizar Group workshops



## iService

Our online after-sales service platform.

In this platform you can find all the information related to your vehicle and carry out all the procedures quickly, easily and simply.

- **Complete technical documentation:** access user manuals, quick guides, service manuals, technical sheets, rescue sheets, diagrams and much more, everything you need for complete knowledge of your vehicle.
- **Spare parts catalogue:** consult the custom spare parts catalogue and easily find the references of the parts you need.
- **E-Shop:** place your spare parts orders online directly and securely, all from one place.
- **Technical HelpDesk service:** a service composed of technicians with extensive experience in electric vehicles, designed to provide support in diagnostics, repairs or replacements, both hardware and software, in electric vehicles and their high voltage batteries, outside the framework of warranty services.



## iST: Irizar Service Tool

The iST is the **complete diagnostic solution** tool for your vehicle that combines hardware and software. Its compatibility with multiple systems and its accessible interface will allow you to perform diagnostics quickly and efficiently, facilitating maintenance and the optimisation of vehicle performance.

In addition to being intuitive and easy to use, the iST becomes an **essential tool to have precise and reliable control** of all the integrated systems that make up your vehicle.



## Continuous and personalised training

We offer continuous and personalised training, given by our technical experts, to guarantee a quality service. Our training sessions are **adapted to the specific needs of each customer**, ensuring that the equipment is always up-to-date and ready to optimise the vehicles' performance and maintenance.



# IRIZAR GROUP

## Building a legacy



IRIZAR  
Group



Irizar is a business group with an international presence, specialising in key sectors such as passenger transport, electromobility and clean energy.

With a solid structure composed of five companies - **Irizar, Irizar e-mobility, Hispacold, Masats, and Jema** - the Group has 11 production plants distributed in Spain, Morocco, Brazil, Mexico and South Africa.

The Group has its own Research and Development Centre, Creatio, located at its headquarters in Ormaiztegui (Gipuzkoa, Spain). This centre is key in the applied research and technological development of its products and systems, reflecting the Group's commitment to excellence and sustainability.

Founded in 1889, Irizar is made up around **3,900 people** and continues to be a solid group with a commercial presence in more than 90 countries and is constantly growing. With a global vision and a firm focus on brand, advanced technology and sustainability, Irizar continues to lead the way towards a greener and more connected future.





Headquarters of Irizar e-mobility in Aduna, Guipúzcoa.

# IRIZAR E-MOBILITY

- +

**Electric buses**
- +

**In-house battery manufacturing**
- +

**European production**
- +

**Tailored customer service**
- +

**Innovation Km 0**
- +

**Experts in the 360 deployment of BRT fleets**

At Irizar e-mobility we offer **complete urban electromobility solutions**, combining 100% electric buses with charging and energy storage infrastructure, all developed with our own technology and the guarantee and quality of the Irizar service.

Our range of city buses, available in **10, 12 and 18 metre** versions, have been running since 2014 in different cities around the world, **guaranteeing reliability, efficiency** and actively contributing to **sustainable mobility**.

**With you at every stage**

We offer differential value through **close and personalised** customer service. Our team of professionals accompanies the customer throughout the life of their vehicle, providing the necessary support to make the best decisions to optimise their investment. Our priority is to ensure that each customer obtains the **maximum performance and satisfaction** from their purchase, consolidating a **relationship of trust and continuous commitment**.

## We'll take care of everything



IRIZAR E-MOBILITY

### Advice and guidance

- **Customised study** of the operator's service lines (operating data, speed, climate, terrain...).

### A unique interlocutor in all phases of the project.

### Accompaniment from start to finish

- **Accompaniment** in the electrification of the fleet with a proposal on the optimisation of service operations.
- **Coordination of civil works.**
- **Advice** on the energy needed and an optimisation strategy.
- **System installation and commissioning.**
- **Optimum parameters** for power, charging strategies, charging times and battery life.
- **Integral monitoring and maintenance.**
- Incorporated systems updates to **optimise the life** of each vehicle, improving your assets' value.

Innovation, sustainability and clean technology at the service of the future of mobility



- 100% energy **self-sufficiency**. Our energy is from renewable sources.
- We **revalue more than 75%** of the waste from our production process.
- We **save more than 13 million litres of water** through responsible and efficient management.
- We have reached the **highest level of energy efficiency certificate**.
- Our manufacturing plant includes a warehouse and domestic hot water heating system that works **by using the surplus steam** from a company located in the adjoining plot.
- We **promote the circular economy** through our sustainable merchandising brand Izir.
- We **collaborate with various social inclusion associations** to develop circular economy projects.
- We have invested 3 MW in the **largest photovoltaic solar park** in the Basque Country, Ekian.
- Our facilities are built with **environmental criteria** and eco-design.
- We comply with **ISO 45001, 14001, 9001 and 14064** standards.



# TECHNICAL DATA

## Irizar ie tram

The Irizar ie tram is available in the following lengths:

10 metres

Two to three doors



12 metres

Two to three doors



18 metres

Up to four doors



## Irizar ie bus

The Irizar ie bus is available in the following lengths:

10 metres

Two to three doors



12 metres

Two to three doors



18 metres

Up to four doors



– DISTRIBUTION AND TECHNICAL DATA

# Irizar ie tram

10 m



| DIMENSIONS          |                     |
|---------------------|---------------------|
| Length              | 10,620 mm (2 axles) |
| Maximum heigh       | 3,300 mm            |
| Width               | 2,550 mm            |
| Wheelbase           | 4,415 mm            |
| Front/rear overhang | 2,805 mm / 3,400 mm |
| Interior height     | 2,375 mm            |
| Lead angle          | 7°                  |
| Departure angle     | 7°                  |

| POWERTRAIN |                           |
|------------|---------------------------|
| Type       | Central synchronous motor |

| ENERGY STORAGE SYSTEM |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Battery technology    | 4th generation of Irizar batteries: Three Technology Options Available |
| Charging power        |                                                                        |
| • Slow charging       | up to 150 kW                                                           |
| • Fast charging       | up to 300 kW                                                           |
| • Ultra-fast charging | up to 450 kW                                                           |

| CLIMATE CONTROL SYSTEM                            |  |
|---------------------------------------------------|--|
| Driver - Hispacold Zero Emissions HVAC system     |  |
| Passengers - Hispacold Zero Emissions HVAC system |  |

| PASSENGER AREA AND ACCESSIBILITY           |    |
|--------------------------------------------|----|
| Max Passengers                             | 95 |
| Low Floor                                  |    |
| One or two wheelchair / pushchair areas    |    |
| Four seats for PRM                         |    |
| Ramp for people with disabilities          |    |
| Two to three doors                         |    |
| Possibility of installing cantilever seats |    |

| SAFETY AND REGULATION                                                                |  |
|--------------------------------------------------------------------------------------|--|
| R159 - MOIS (Moving Off Information System)                                          |  |
| R151 - BSIS (Blind Spot Information System)                                          |  |
| R138 - AVAS (Acoustic Vehicle Alerting System)                                       |  |
| 2021/1958 - ISA (Intelligent Speed Assistance)                                       |  |
| 2021/1341 - DDAW (Driver Drowsiness and Attention Warning)                           |  |
| R(UE) 2023/2590 - ADDW (Advanced Driver Distraction Warning)                         |  |
| R141 - TPMS (Tire Pressure Monitoring Systems)                                       |  |
| R130 - Lane Departure Warning System                                                 |  |
| R29 - Cabin occupants protection                                                     |  |
| R66/02 - Roll-Over Protection Regulation                                             |  |
| R118 - Fire Safety Regulation                                                        |  |
| ESC - Stability control                                                              |  |
| R155 & R156 - Cybersecurity                                                          |  |
| Secure Start on slope                                                                |  |
| ABS, ASR, EBS                                                                        |  |
| Creepage and Hillholder / EcoAssist function: helps efficient driving                |  |
| Eco-mode: intelligent management of climate control once the vehicle is switched off |  |
| Driving area according to ISO16121, VDV234 and EBSF                                  |  |
| Compliance with ITxPT standard                                                       |  |

| WEIGHTS                          |           |
|----------------------------------|-----------|
| Maximum weight on the front axle | 8,165 kg  |
| Maximum weight on the rear axle  | 13,000 kg |

| OTHER                                                         |           |
|---------------------------------------------------------------|-----------|
| Customisable Ambient Lighting                                 |           |
| Charging options: front, rear and side                        |           |
| Optional pantograph charging: mounted on the roof or inverted |           |
| Optional wheel covers                                         |           |
| Digital vision cameras                                        |           |
| Kerb-to-Kerb turning circle                                   | 13,760 mm |
| Wall-to-wall turning circle                                   | 17,460 mm |

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For distribution option, request information

– DISTRIBUTION AND TECHNICAL DATA

# Irizar ie tram

12 m



| DIMENSIONS          |                     |
|---------------------|---------------------|
| Length              | 12,160 mm (2 axles) |
| Maximum height      | 3,300 mm            |
| Width               | 2,550 mm            |
| Wheelbase           | 5,955 mm            |
| Front/rear overhang | 2,805 mm / 3,400 mm |
| Interior height     | 2,375 mm            |
| Lead angle          | 7°                  |
| Departure angle     | 7°                  |

| POWERTRAIN |                           |
|------------|---------------------------|
| Type       | Central synchronous motor |

| ENERGY STORAGE SYSTEM |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Battery technology    | 4th generation of Irizar batteries: Three Technology Options Available |
| Charging power        |                                                                        |
| • Slow charging       | up to 150 kW                                                           |
| • Fast charging       | up to 300 kW                                                           |
| • Ultra-fast charging | up to 450 kW                                                           |

| CLIMATE CONTROL SYSTEM                            |  |
|---------------------------------------------------|--|
| Driver - Hispacold Zero Emissions HVAC system     |  |
| Passengers - Hispacold Zero Emissions HVAC system |  |

| PASSENGER AREA AND ACCESSIBILITY           |     |
|--------------------------------------------|-----|
| Max Passengers                             | 105 |
| Low Floor                                  |     |
| One or two wheelchair / pushchair areas    |     |
| Four seats for PRM                         |     |
| Ramp for people with disabilities          |     |
| Two to three doors                         |     |
| Possibility of installing cantilever seats |     |

| SAFETY AND REGULATION                                                                |  |
|--------------------------------------------------------------------------------------|--|
| R159 - MOIS (Moving Off Information System)                                          |  |
| R151 - BSIS (Blind Spot Information System)                                          |  |
| R138 - AVAS (Acoustic Vehicle Alerting System)                                       |  |
| 2021/1958 - ISA (Intelligent Speed Assistance)                                       |  |
| 2021/1341 - DDAW (Driver Drowsiness and Attention Warning)                           |  |
| R(UE) 2023/2590 - ADDW (Advanced Driver Distraction Warning)                         |  |
| R141 - TPMS (Tire Pressure Monitoring Systems)                                       |  |
| R130 - Lane Departure Warning System                                                 |  |
| R29 - Cabin occupants protection                                                     |  |
| R66/02 - Roll-Over Protection Regulation                                             |  |
| R118 - Fire Safety Regulation                                                        |  |
| ESC - Stability control                                                              |  |
| R155 & R156 - Cybersecurity                                                          |  |
| Secure Start on slope                                                                |  |
| ABS, ASR, EBS                                                                        |  |
| Creepage and Hillholder / EcoAssist function: helps efficient driving                |  |
| Eco-mode: intelligent management of climate control once the vehicle is switched off |  |
| Driving area according to ISO16121, VDV234 and EBSF                                  |  |
| Compliance with ITxPT standard                                                       |  |

| WEIGHTS                          |           |
|----------------------------------|-----------|
| Maximum weight on the front axle | 8,165 kg  |
| Maximum weight on the rear axle  | 13,000 kg |

| OTHER                                                         |           |
|---------------------------------------------------------------|-----------|
| Customisable Ambient Lighting                                 |           |
| Charging options: front, rear and side                        |           |
| Optional pantograph charging: mounted on the roof or inverted |           |
| Optional wheel covers                                         |           |
| Digital vision cameras                                        |           |
| Kerb-to-Kerb turning circle                                   | 17,400 mm |
| Wall-to-wall turning circle                                   | 21,190 mm |

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For distribution option, request information

– DISTRIBUTION AND TECHNICAL DATA

# Irizar ie tram

18 m



| DIMENSIONS          |                     |
|---------------------|---------------------|
| Length              | 18,195 mm (3 axles) |
| Maximum height      | 3,300 mm            |
| Width               | 2,550 mm            |
| Wheelbase 1         | 5,955 mm            |
| Wheelbase 2         | 6,035 mm            |
| Front/rear overhang | 2,805 mm / 3,400 mm |
| Interior height     | 2,375 mm            |
| Lead angle          | 7°                  |
| Departure angle     | 7°                  |

| POWERTRAIN |                           |
|------------|---------------------------|
| Type       | Central synchronous motor |

| ENERGY STORAGE SYSTEM |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Battery technology    | 4th generation of Irizar batteries: Three Technology Options Available |
| Charging power        |                                                                        |
| • Slow charging       | up to 150 kW                                                           |
| • Fast charging       | up to 300 kW                                                           |
| • Ultra-fast charging | up to 600 kW                                                           |

| CLIMATE CONTROL SYSTEM                            |  |
|---------------------------------------------------|--|
| Driver - Hispacold Zero Emissions HVAC system     |  |
| Passengers - Hispacold Zero Emissions HVAC system |  |

| PASSENGER AREA AND ACCESSIBILITY                                                        |     |
|-----------------------------------------------------------------------------------------|-----|
| Max Passengers                                                                          | 150 |
| Low Floor                                                                               |     |
| Up to three wheelchair / pushchair areas                                                |     |
| Four seats for PRM                                                                      |     |
| Up to four doors                                                                        |     |
| Ramp for people with disabilities                                                       |     |
| Possibility of installing cantilever seats in the front area and after the articulation |     |

| SAFETY AND REGULATION                                                                |  |
|--------------------------------------------------------------------------------------|--|
| R159 - MOIS (Moving Off Information System)                                          |  |
| R151 - BSIS (Blind Spot Information System)                                          |  |
| R138 - AVAS (Acoustic Vehicle Alerting System)                                       |  |
| 2021/1958 - ISA (Intelligent Speed Assistance)                                       |  |
| 2021/1341 - DDAW (Driver Drowsiness and Attention Warning)                           |  |
| R(UE) 2023/2590 - ADDW (Advanced Driver Distraction Warning)                         |  |
| R141 - TPMS (Tire Pressure Monitoring Systems)                                       |  |
| R130 - Lane Departure Warning System                                                 |  |
| R29 - Cabin occupants protection                                                     |  |
| R66/02 - Roll-Over Protection Regulation                                             |  |
| R118 - Fire Safety Regulation                                                        |  |
| Articulated bus angle management system                                              |  |
| R155 & R156 - Cybersecurity                                                          |  |
| Secure Start on slope                                                                |  |
| ABS, ASR, EBS                                                                        |  |
| Creepage and Hillholder / EcoAssist function: helps efficient driving                |  |
| Eco-mode: intelligent management of climate control once the vehicle is switched off |  |
| Driving area according to ISO16121, VDV234 and EBSF                                  |  |
| Compliance with ITxPT standard                                                       |  |

| WEIGHTS                          |           |
|----------------------------------|-----------|
| Maximum weight on the front axle | 8,165 kg  |
| Maximum weight on axle 2         | 10,000 kg |
| Maximum weight on axle 3         | 13,000 kg |

| OTHER                                                         |  |
|---------------------------------------------------------------|--|
| Customisable Ambient Lighting                                 |  |
| Charging options: front, rear and side                        |  |
| Optional pantograph charging: mounted on the roof or inverted |  |
| Optional wheel covers                                         |  |
| Digital vision cameras                                        |  |

– DISTRIBUTION AND TECHNICAL DATA

# Irizar ie bus

10 m



| DIMENSIONS          |                     |
|---------------------|---------------------|
| Length              | 10,620 mm (2 axles) |
| Maximum heigh       | 3,250 mm            |
| Width               | 2,550 mm            |
| Wheelbase           | 4,415 mm            |
| Front/rear overhang | 2,805 mm / 3,400 mm |
| Interior height     | 2,375 mm            |
| Lead angle          | 7°                  |
| Departure angle     | 7°                  |

| POWERTRAIN |                           |
|------------|---------------------------|
| Type       | Central synchronous motor |

| ENERGY STORAGE SYSTEM |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Battery technology    | 4th generation of Irizar batteries: Three Technology Options Available |
| Charging power        |                                                                        |
| • Slow charging       | up to 150 kW                                                           |
| • Fast charging       | up to 300 kW                                                           |
| • Ultra-fast charging | up to 450 kW                                                           |

| CLIMATE CONTROL SYSTEM                            |  |
|---------------------------------------------------|--|
| Driver - Hispacold Zero Emissions HVAC system     |  |
| Passengers - Hispacold Zero Emissions HVAC system |  |

| PASSENGER AREA AND ACCESSIBILITY           |    |
|--------------------------------------------|----|
| Max Passengers                             | 95 |
| Low Floor                                  |    |
| One or two wheelchair / pushchair areas    |    |
| Four seats for PRM                         |    |
| Ramp for people with disabilities          |    |
| Two to three doors                         |    |
| Possibility of installing cantilever seats |    |

| SAFETY AND REGULATION                                                                |  |
|--------------------------------------------------------------------------------------|--|
| R159 - MOIS (Moving Off Information System)                                          |  |
| R151 - BSIS (Blind Spot Information System)                                          |  |
| R138 - AVAS (Acoustic Vehicle Alerting System)                                       |  |
| 2021/1958 - ISA (Intelligent Speed Assistance)                                       |  |
| 2021/1341 - DDAW (Driver Drowsiness and Attention Warning)                           |  |
| R(UE) 2023/2590 - ADDW (Advanced Driver Distraction Warning)                         |  |
| R141 - TPMS (Tire Pressure Monitoring Systems)                                       |  |
| R130 - Lane Departure Warning System                                                 |  |
| R29 - Cabin occupants protection                                                     |  |
| R66/02 - Roll-Over Protection Regulation                                             |  |
| R118 - Fire Safety Regulation                                                        |  |
| ESC - Stability control                                                              |  |
| R155 & R156 - Cybersecurity                                                          |  |
| Secure Start on slope                                                                |  |
| ABS, ASR, EBS                                                                        |  |
| Creepage and Hillholder / EcoAssist function: helps efficient driving                |  |
| Eco-mode: intelligent management of climate control once the vehicle is switched off |  |
| Driving area according to ISO16121, VDV234 and EBSF                                  |  |
| Compliance with ITxPT standard                                                       |  |

| WEIGHTS                          |           |
|----------------------------------|-----------|
| Maximum weight on the front axle | 8,165 kg  |
| Maximum weight on the rear axle  | 13,000 kg |

| OTHER                                                         |           |
|---------------------------------------------------------------|-----------|
| Customisable Ambient Lighting                                 |           |
| Charging options: front, rear and side                        |           |
| Optional pantograph charging: mounted on the roof or inverted |           |
| Optional wheel covers                                         |           |
| Digital vision cameras                                        |           |
| Kerb-to-Kerb turning circle                                   | 13,760 mm |
| Wall-to-wall turning circle                                   | 27,460 mm |

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For distribution option, request information

– DISTRIBUTION AND TECHNICAL DATA

# Irizar ie bus

12 m



| DIMENSIONS          |                     |
|---------------------|---------------------|
| Length              | 12,160 mm (2 axles) |
| Maximum height      | 3,250 mm            |
| Width               | 2,550 mm            |
| Wheelbase           | 5,955 mm            |
| Front/rear overhang | 2,805 mm / 3,400 mm |
| Interior height     | 2,375 mm            |
| Lead angle          | 7°                  |
| Departure angle     | 7°                  |

| POWERTRAIN |                           |
|------------|---------------------------|
| Type       | Central synchronous motor |

| ENERGY STORAGE SYSTEM |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Battery technology    | 4th generation of Irizar batteries: Three Technology Options Available |
| Charging power        |                                                                        |
| • Slow charging       | up to 150 kW                                                           |
| • Fast charging       | up to 300 kW                                                           |
| • Ultra-fast charging | up to 450 kW                                                           |

| CLIMATE CONTROL SYSTEM                            |  |
|---------------------------------------------------|--|
| Driver - Hispacold Zero Emissions HVAC system     |  |
| Passengers - Hispacold Zero Emissions HVAC system |  |

| PASSENGER AREA AND ACCESSIBILITY           |     |
|--------------------------------------------|-----|
| Max Passengers                             | 105 |
| Low Floor                                  |     |
| One or two wheelchair / pushchair areas    |     |
| Four seats for PRM                         |     |
| Ramp for people with disabilities          |     |
| Two to three doors                         |     |
| Possibility of installing cantilever seats |     |

| SAFETY AND REGULATION                                                                |  |
|--------------------------------------------------------------------------------------|--|
| R159 - MOIS (Moving Off Information System)                                          |  |
| R151 - BSIS (Blind Spot Information System)                                          |  |
| R138 - AVAS (Acoustic Vehicle Alerting System)                                       |  |
| 2021/1958 - ISA (Intelligent Speed Assistance)                                       |  |
| 2021/1341 - DDAW (Driver Drowsiness and Attention Warning)                           |  |
| R(UE) 2023/2590 - ADDW (Advanced Driver Distraction Warning)                         |  |
| R141 - TPMS (Tire Pressure Monitoring Systems)                                       |  |
| R130 - Lane Departure Warning System                                                 |  |
| R29 - Cabin occupants protection                                                     |  |
| R66/02 - Roll-Over Protection Regulation                                             |  |
| R118 - Fire Safety Regulation                                                        |  |
| ESC - Stability control                                                              |  |
| R155 & R156 - Cybersecurity                                                          |  |
| Secure Start on slope                                                                |  |
| ABS, ASR, EBS                                                                        |  |
| Creepage and Hillholder / EcoAssist function: helps efficient driving                |  |
| Eco-mode: intelligent management of climate control once the vehicle is switched off |  |
| Driving area according to ISO16121, VDV234 and EBSF                                  |  |
| Compliance with ITxPT standard                                                       |  |

| WEIGHTS                          |           |
|----------------------------------|-----------|
| Maximum weight on the front axle | 8,165 kg  |
| Maximum weight on the rear axle  | 13,000 kg |

| OTHER                                                         |           |
|---------------------------------------------------------------|-----------|
| Customisable Ambient Lighting                                 |           |
| Charging options: front, rear and side                        |           |
| Optional pantograph charging: mounted on the roof or inverted |           |
| Optional wheel covers                                         |           |
| Digital vision cameras                                        |           |
| Kerb-to-Kerb turning circle                                   | 17,400 mm |
| Wall-to-wall turning circle                                   | 21,190 mm |

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– DISTRIBUTION AND TECHNICAL DATA

# Irizar ie bus

18 m



| DIMENSIONS          |                     |
|---------------------|---------------------|
| Length              | 18,195 mm (3 axles) |
| Maximum height      | 3,250 mm            |
| Width               | 2,550 mm            |
| Wheelbase 1         | 5,955 mm            |
| Wheelbase 2         | 6,035 mm            |
| Front/rear overhang | 2,805 mm / 3,400 mm |
| Interior height     | 2,375 mm            |
| Lead angle          | 7°                  |
| Departure angle     | 7°                  |

| POWERTRAIN |                           |
|------------|---------------------------|
| Type       | Central synchronous motor |

| ENERGY STORAGE SYSTEM |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Battery technology    | 4th generation of Irizar batteries: Three Technology Options Available |
| Charging power        |                                                                        |
| • Slow charging       | up to 150 kW                                                           |
| • Fast charging       | up to 300 kW                                                           |
| • Ultra-fast charging | up to 600 kW                                                           |

| CLIMATE CONTROL SYSTEM                            |  |
|---------------------------------------------------|--|
| Driver - Hispacold Zero Emissions HVAC system     |  |
| Passengers - Hispacold Zero Emissions HVAC system |  |

| PASSENGER AREA AND ACCESSIBILITY                                                        |     |
|-----------------------------------------------------------------------------------------|-----|
| Max Passengers                                                                          | 150 |
| Low Floor                                                                               |     |
| Up to three wheelchair / pushchair areas                                                |     |
| Four seats for PRM                                                                      |     |
| Up to four doors                                                                        |     |
| Ramp for people with disabilities                                                       |     |
| Possibility of installing cantilever seats in the front area and after the articulation |     |

| SAFETY AND REGULATION                                                                |  |
|--------------------------------------------------------------------------------------|--|
| R159 - MOIS (Moving Off Information System)                                          |  |
| R151 - BSIS (Blind Spot Information System)                                          |  |
| R138 - AVAS (Acoustic Vehicle Alerting System)                                       |  |
| 2021/1958 - ISA (Intelligent Speed Assistance)                                       |  |
| 2021/1341 - DDAW (Driver Drowsiness and Attention Warning)                           |  |
| R(UE) 2023/2590 - ADDW (Advanced Driver Distraction Warning)                         |  |
| R141 - TPMS (Tire Pressure Monitoring Systems)                                       |  |
| R130 - Lane Departure Warning System                                                 |  |
| R29 - Cabin occupants protection                                                     |  |
| R66/02 - Roll-Over Protection Regulation                                             |  |
| R118 - Fire Safety Regulation                                                        |  |
| Articulated bus angle management system                                              |  |
| R155 & R156 - Cybersecurity                                                          |  |
| Secure Start on slope                                                                |  |
| ABS, ASR, EBS                                                                        |  |
| Creepage and Hillholder / EcoAssist function: helps efficient driving                |  |
| Eco-mode: intelligent management of climate control once the vehicle is switched off |  |
| Driving area according to ISO16121, VDV234 and EBSF                                  |  |
| Compliance with ITxPT standard                                                       |  |

| WEIGHTS                          |           |
|----------------------------------|-----------|
| Maximum weight on the front axle | 8,165 kg  |
| Maximum weight on axle 2         | 10,000 kg |
| Maximum weight on axle 3         | 13,000 kg |

| OTHER                                                         |  |
|---------------------------------------------------------------|--|
| Customisable Ambient Lighting                                 |  |
| Charging options: front, rear and side                        |  |
| Optional pantograph charging: mounted on the roof or inverted |  |
| Optional wheel covers                                         |  |
| Digital vision cameras                                        |  |



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