

Press Information – Europe

All-new IONIQ 5 N

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Notes

Fuel consumption combined for the Hyundai IONIQ 5 N in l/100 km: 0.0; CO2 emissions combined in g/km: 0.0 (WLTP)

The specified energy consumption and emission data have been determined according to the Worldwide Harmonized Light Vehicles Test Procedure (WLTP). When figures are specified as value ranges, these do not refer to a particular individual vehicle, but to different trims. Specifications may vary depending on region and trim.

Further information about the official fuel consumption figures and official, specific CO2 emissions of new passenger cars can be found in the "Guide to fuel consumption, CO2 emissions and electricity consumption of new cars" which is available free of charge from all sales outlets and from DAT.

01 All-new IONIQ 5 N at a glance

Overview

- IONIQ 5 N is Hyundai N's first high-performance mass-production electric vehicle, as well as N brand's first production vehicle with fully electric all-wheel drive
- Following IONIQ 5 and IONIQ 6, IONIQ 5 N is Hyundai's third model to be based on Hyundai Motor Group's Electric-Global Modular Platform (E-GMP)
- Built on the foundation of IONIQ 5, the 2022 World Car of the Year, IONIQ 5 N has been developed with new technical solutions to deliver high performance
- IONIQ 5 N plays a key role in further accelerating Hyundai's electrification future
- Following the N DNA, IONIQ 5 N adheres to the three performance pillars of N: Corner Rascal, Racetrack Capability, and Everyday Sportscar

Design

- IONIQ 5 N's design is not just for aesthetics; each visual element serves a functional purpose and improves the model's sportiness, aerodynamics, or braking performance:
 - N-exclusive glossy black front bumper with functional mesh along with air curtains and three front Active Air Flaps enhance aerodynamics and cooling performance
 - N-exclusive radiator grille improves cooling performance
 - N-exclusive rear spoiler, rear diffuser, and air outlet help optimise airflow
- Lower, wider, and with larger high-performance tyres, IONIQ 5 N boasts an aggressive stance
- New bumper designs increase the length of the front and rear by 25 millimetres and 55 millimetres, respectively
- The front and rear suspension have been designed from the ground up, further reducing the centre of gravity to optimise driveability
- IONIQ 5 N's interior was modelled after a racing concept for ideal driver ergonomics
- In the interior, there are:
 - N bucket-type sport seats with a lower seating position,
 - a new N-exclusive steering wheel with three dedicated mode buttons and NGB button,
 - and a N-exclusive centre console for a sporty cockpit.
- The sports seats are covered in a pixel pattern and come in two designs:
 - Cloth & Pure Leather
 - Recycled Poly Alcantara & Pure Leather
- Sustainable materials are applied throughout IONIQ 5 N, including recyclable paperette door decorative garnish, bio PET yarn from sugarcane, recycled PET yarn from recycled PET bottles, bio TPO from sugarcane, and pure leather. IONIQ 5 N also adds recycled tyre pigment paint and recycled poly Alcantara seat cover cloth
- IONIQ 5 N comes in ten exterior colours, including two exclusive colours to Hyundai N: Performance Blue Glossy and Performance Blue Matte
- The new Hyundai N accent colour for EVs is Luminous Orange Matte

Vehicle Size	Length (mm)	Width (mm)	Height (mm)	Wheelbase (mm)
	4,715	1,940	1,585	3,000

Electric-Global Modular Platform

- IONIQ 5 N is the third Hyundai model and the first N brand model based on Hyundai Motor Group's BEV-dedicated Electric Global Modular Platform (E-GMP)
- This is the first E-GMP with a fourth-generation 84.0 kWh battery
- The platform was extensively reinforced for global and local stiffness, resulting in an improved and dynamic chassis
- E-GMP gives IONIQ 5 N a low centre of gravity and even weight distribution to optimise driveability
- E-GMP's ultra-fast charging capabilities and the model's thermal efficiency work together to deliver top track times.
- With no transmission tunnel, a flat floor is created with the model's batteries stored underneath
- E-GMP allows the car to run with two motors, offering an extra amount of power and torque
- For IONIQ 5 N, E-GMP was overhauled to deliver more power, torque, and response
- The diversity of E-GMP allowed IONIQ 5 N to be optimised to the fullest, creating the basis for a car that is 'fun to drive'

Electric powertrain

Drivetrain	Battery Capacity	Maximum Power Output	Torque	0-100 km/h	Top Speed	All-Electric Range (WLTP)	Battery Technology
AWD	84.0 kWh	609 PS 650 PS*	740 Nm 770 Nm*	3.5 seconds 3.4 seconds*	260 km/h	448 km	800 V

* with NGB engaged

Three pillars of N performance: Corner Rascal

- Body and chassis reinforcements, as well as 42 additional welding and 2.1 metres of additional structural adhesives, have been added to further improve body and suspension mount rigidity. For lateral rigidity, the motor and battery mounting have been reinforced, and front and rear subframes have been enhanced
- Integrated Drive Axles (IDA) have been applied to both the front and rear and reinforced to endure stronger electric motor torque while reducing unsprung mass
- The steering column has been strengthened and an IONIQ 5 N-specific steering rack with a higher steering gear ratio was added to enhance steering response and feedback
- Inside, the front seats with reinforced bolsters, a fixed centre console with bespoke knee pads and shin support, and a sliding armrest improve interior stability, ensuring that the driver's position and interior elements remain in place during high-speed driving
- IONIQ 5 N comes with lightweight, in-house-developed forged 21-inch aluminium wheels and high-grip 275/35R21 Pirelli P-Zero tyres for improved ride and handling and better grip on the racetrack
- The high-performance braking system, supported by large 400-mm and 360-mm diameter brake discs in the front and rear, respectively, lighter metallurgy with hybrid construction discs, monoblock four-piston front callipers with high friction brake pads, and dedicated air guides in the front and rear, enhances brake heat capacity and better cools the brake discs
- A unique and powerful regenerative braking system inspired by motorsport was developed in-house, guaranteeing consistent braking performance, excellent heat management, and up to a maximum of 0.6 G decelerative force — an industry-leading figure. The thermal efficiency of the system works seamlessly with the hydraulic brake system, completely imperceptible to the driver

- The electronic stability control (ESC) Sport provides more freedom and more slip angles to the driver compared to ESC Normal, which enhances the driving fun but also provides support during dynamic driving
- Developed as a solution to overcome the inherent weight and size of EVs, N Pedal was designed for instant turn-in behaviour and enhanced throttle sensitivity, increasing the regenerative force to create a dynamic weight transfer that helps to sharpen corner entry
- N Torque Distribution adjusts the front and rear drive ratio, providing fully variable torque distribution that can be adjusted for eleven levels
- The electronic Limited Slip Differential (e-LSD) controls the amount of torque sent to the rear wheels, enhances handling performance when turning at high speeds, and improves wheel-slip compensation. Additional wheel sensors and broader damping capacity with increased damper size widen the performance range of the electronically controlled suspension
- Responding to real-time inputs, N Drift Optimizer helps to maintain the drift angle by balancing multiple vehicle controls. The integrated Torque Kick Drift function allows the driver to simulate the clutch kick action of rear-wheel-drive ICE vehicles for driving scenarios that require more immediate drift initiation

Three pillars of N performance: Racetrack Capability

- IONIQ 5 N delivers a maximum power output of 650 PS and a maximum torque of 770 Nm (with NGB)
- The Electronically Controlled Suspension (ECS) system controls the dampening force and improves handling, stability, and ride comfort. The driver can adjust the suspension stiffness to optimise IONIQ 5 N's reaction to a variety of driving conditions, whether on the road or racetrack
- To prevent the loss of maximum power from overheating, IONIQ 5 N has a dedicated cooling system, which includes an increased cooling area, more efficient radiator packaging, an enhanced motor oil cooler, and an improved battery chiller
- The new N-exclusive steering wheel is equipped with three dedicated mode buttons:
 - Drive Mode Select with Normal Mode, Eco Mode, and Sport Mode
 - Two N Custom buttons
- N Grin Boost (NGB) delivers an instant thrust from IONIQ 5 N's dual motors by increasing the power output and torque for ten seconds
- N Launch Control provides maximum traction for the fastest possible start, allowing the driver to launch their vehicle like a professional race car
- With a few button presses, N Race utilises a motorsport-derived philosophy that optimises resources for the best track experience. The feature gives the driver more direct control of IONIQ 5 N's energy usage:
 - Sprint maximises cooling to prioritise immediate bursts of full power. Ideal for hot laps
 - Endurance limits peak power to maximise range, prioritising track range for long stints. Ideal for non-competitive track driving
- N Battery Preconditioning optimises the temperature of the battery cells to be as efficient as possible:
 - Drag Mode: optimum temperature is set for short bursts of full power
 - Track Mode: battery temperature is optimised for more laps

Three pillars of N performance: Everyday Sportscar

- N e-Shift simulates the behaviour of the eight-speed dual-clutch N DCT of ICE N models by controlling the motor's torque output and power and simulating the jolt feeling between shifts. It provides the push feel of a DCT transmission and various levels of simulated engine braking using regeneration. The purpose is to increase driving fun, provide a more interactive driving experience, and deliver the same emotions of an ICE on a racetrack or a windy road
- Paired with N e-Shift for more engaging driving, N Active Sound+ produces three sounds – 'Ignition', an ICE N engine and exhaust sound, and two futuristic EV sounds, including 'Supersonic', inspired by fighter jets – through eight internal Bose® Premium Sound speakers and two external speakers. Drivers can even rev the "engine" when N e-Shift is activated and transmission is in park or neutral.

- N Road Sense automatically recommends that the driver activate N Mode when double-curved road signs are detected. This lets the driver enjoy even more driving fun
- To preserve braking performance, the enhanced regenerative braking system has a high resistance to derating and is seamlessly blended with the physical hydraulic brakes to create a transition that is imperceptible to the driver
- IONIQ 5 N comes standard with the highest capacity battery ever seen in a Hyundai EV: 84.0 kWh
- The state-of-the-art 800V battery technology allows ultra-fast charging – 10 to 80 per cent in 18 minutes
- IONIQ 5 N is available with Plug & Charge. This means that electricity automatically begins to flow once IONIQ 5 N is connected to a charging point without needing a card or an app for authentication
- For the utmost convenience, IONIQ 5 N is equipped with Vehicle-to-Load (V2L) technology, which ensures customers can freely use or charge any 230V electrical equipment
- IONIQ 5 N provides 480 litres of cargo space
- The Hyundai Connected Car Navigation Cockpit (ccNC) features the combination of a 12.3-inch instrument cluster and a 12.3-inch infotainment display, including specific graphics and options for N mode. It includes Over-the-Air (OTA) updates to wirelessly update system features
- Digital Key 2 allows users to unlock and start the vehicle with a smartphone. With car sharing, up to 15 keys can be shared – with restrictions as well (unlock & driving, unlock only, valet mode)
- Wireless Power High-Speed Charger
 - NFC reader provided for the Digital Key 2
 - Cooled via A/C to avoid smartphone overheating
 - Enhanced charging power of 15W
 - Closed receptacle to avoid smartphone movement
- Type-C USB Charger
 - 2x Type-C USB ports in the front tray
 - 1x Type-C USB ports on the front centre console
 - 2x Type-C USB ports on the rear centre console
- IONIQ 5 N is also equipped with the next level of Hyundai Smart Sense Advanced Driver Assistance System features, ensuring the highest levels of safety and convenience on the road:
 - Forward Collision-Avoidance Assist 2.0 (FCA 2):
 - Car / Pedestrian / Cyclist detection
 - Junction Turning
 - Junction Crossing
 - Lane-Change Oncoming
 - Lane-Change Side with Evasive Steering Assist
 - Blind-Spot Collision-Avoidance Assist (BCA): Rear
 - Intelligent Speed Limit Assist (ISLA)
 - Safe Exit Warning (SEW)
 - Navigation-based Smart Cruise Control (SCC)
 - Lane Following Assist (LFA)
 - Rear Cross-traffic Collision-Avoidance Assist (RCCA)
 - Highway Driving Assist 2 (HDA 2) with Lane Changing Assist function
 - Parking Collision-Avoidance Assist (PCA): Reverse/Forward/Side
 - Rear View Monitor (RVM)
 - Surround View Monitor (SVM)
 - Remote Smart Parking Assist 2 (RSPA 2)
 - Blind Spot View Monitor (BVM)
 - Lane Keeping Assist (LKA)
 - Side Parking Distance Warning

02 Hyundai N: born in Namyang, honed at the Nürburgring

Hyundai 'N' stands for Namyang, Hyundai Motor's global R&D centre in Korea, where the idea was born, and for the Nürburgring, home to Hyundai Motor's European Testing Center, where the N line-up was further developed and tested. The close connection between Namyang and Nürburgring created the foundation for N, the goal being to deliver driving enjoyment. Symbolising a chicane, the 'N' logo embodies this aspect – an agile vehicle that is fun to drive – and represents the ultimate driving experience.

Testing centre at Nürburgring

The Nürburgring was and continues to be used to hone N's high-performance technologies. The iconic Nürburgring-Nordschleife is known as one of the world's most challenging racetracks. With 73 corners and 20,832 kilometres of tarmac, it is also a motorsport complex and home to Hyundai Motor's own Testing Center, operated by the Hyundai Motor Europe Technical Center.

A massive portion of Hyundai Motor's accelerated durability tests are conducted there. Each high-performance car taking part in the tests laps the Nürburgring at least 480 times in both dry and wet conditions, simulating up to 180,000 kilometres of severe driving – the equivalent of a normal vehicle's lifecycle – in just ten to 12 weeks. The constant combination of hard acceleration, rapid deceleration, and heavy cornering pushes the vehicles to their limits, and the variable surfaces and camber ensure top performance even in adverse conditions.

Namyang R&D Center

Opened in 1995 in Hwaseong, South Korea and employing 13,000 researchers and developers, the Namyang R&D Center is the heart of Hyundai Motor's global research and development network. Located on over 3.3 million square metres of land, it consists of various centres for design and engineering, powertrain, performance and test driving, an aero-acoustic wind tunnel, and environmental R&D. It is host to 34 roads, including 'Area C,' a 4.5-kilometre, high-speed track. The area featuring a total road length of 70 kilometres is the spiritual home of Hyundai N.

03 New era of electrification

As Hyundai strives to emerge as a leader in electric mobility, IONIQ 5 N stands as a milestone, transforming the vision of emotional zero-emission mobility into reality. The motorsport-inspired three pillars of N performance – Corner Rascal, Racetrack Capability, and Everyday Sportscar – have long applied to N's electrification strategy.

In 2015, N brand established its vision of a sustainable future for the next generation of driving enthusiasts by showing the N 2025 Vision Gran Turismo. N's electrification strategy began with the RM20e prototype and Veloster N ETCR race car. In 2022, N brand introduced the RN22e, a rolling lab designed to communicate a transfer of N's electrification experience to the brand's first production EV, IONIQ 5 N.

N is dedicated to delivering a 'fun to drive' experience, particularly with their electrified models, as they strive

to set a groundbreaking standard for sustainable high performance. By integrating N with E-GMP-based models known for their spaciousness and affordability, they aim to expand their customer base and N sales markets, maintaining their commitment to providing cars suitable for everyday use while excelling in cornering and racetrack capabilities.

04 Performance meets sustainability in design

IONIQ 5 N showcases a dynamic and unique design that goes beyond mere aesthetics, with each visual element serving a functional purpose. Contributing to sportiness, aerodynamics, or braking performance IONIQ 5 N's design enhances efficiency, convenience, and driving pleasure.

The exterior of IONIQ 5 N incorporates various performance-enhancing design elements. The N-exclusive front bumper features functional mesh, air curtains, and front Active Air Flaps working in unison to enhance aerodynamics. The rear spoiler, rear diffuser, and air outlets emphasise the sporty aspects and improve aerodynamics. A lip spoiler runs across the lower part of the bumper to emphasise the car's low-slung stance and convey its performance intent.

The N model further distinguishes itself from the IONIQ 5 with a change of proportions: lower, wider, and equipped with larger wheels. IONIQ 5 N exudes an aggressive stance, complemented by new bumper designs that increase the length of the front and rear by 25 millimetres and 55 millimetres, respectively. It is 20 millimetres lower overall, 50 millimetres wider at the bottom to accommodate wider tyres, and 80 millimetres longer due to the more prominent diffuser. This impression is reinforced by the forged 21-inch aluminium performance wheels wrapped in high-grip 275/35R21 Pirelli P-Zero tyres for improved ride and handling and better grip in track performance.

The front and rear suspension have been meticulously designed from the ground up, effectively optimising suspension kinematics to work with the high-performance tyres and lowering the seating position and thus the centre of gravity to optimise drivability. IONIQ 5 N is available in ten exterior colours, including two exclusive Hyundai N shades – Performance Blue Glossy and Performance Blue Matte. The new Hyundai N accent colour for EVs, Luminous Orange Matte, stands out. Sustainability takes centre stage, with eco-friendly materials such as recyclable paperette door decorative garnish, bio PET yarn from sugarcane, recycled PET yarn from PET bottles, bio TPO from sugarcane, and pure leather. Additionally, the model incorporates recycled tyre pigment paint and recycled poly Alcantara seat cover cloth to further exemplify Hyundai's commitment to environmentally conscious practices.

At the rear, the N-exclusive spoiler, along with an orange-accented rear diffuser and air outlet, helps control airflow to support optimal aerodynamic performance. This highlights IONIQ 5 N's high-performance capability and adds to its aggressive styling. Integrated into the spoiler is a triangular N-exclusive high-mounted stop lamp for braking. IONIQ 5 N also has a rear fog lamp on the centre of the rear diffuser, giving the car a sporty look. Below the rear hatch is an N-exclusive black bumper cover with checkered flag reflector graphics and a rear window wiper for enhanced rear visibility. The checkered flag theme, a track-inspired riff on IONIQ 5's iconic parametric pixels, can be found on the door scuff panels, metal pedals, and footrest, representing N Brand's motorsport spirit. Flat Hyundai emblems can be found in the front and rear.

Exterior colours:

- IONIQ 5 N is available in ten exterior colours:
 - Abyss Black Pearl
 - Ecotronic Grey Pearl (ECO concept with bamboo charcoal pigment)
 - Ecotronic Grey Matte (ECO concept with bamboo charcoal pigment)
 - Atlas White Glossy
 - Atlas White Matte
 - Cyber Grey Metallic
 - Performance Blue Glossy (N-dedicated exterior colour)
 - Performance Blue Matte (N-dedicated exterior colour, IONIQ 5 N hero colour)
 - Gravity Gold Matte
 - Soultronic Orange Pearl

- The new EV N colour accent is Luminous Orange Matte.

IONIQ 5 N's interior is modelled after a racing concept, prioritising ideal driver ergonomics with N bucket-type sports seats featuring a lower seating position, a new N-exclusive steering wheel with dedicated mode buttons, and an N-exclusive fixed centre console. The seats come in two pixel-patterned designs: Cloth and pure Leather and recycled poly Alcantara and pure Leather.

Its interior conveys the N family look with the application of N-branded elements, including the steering wheel, seats, door scuff panels, and metal pedals, optimised for track driving. The newly designed N steering wheel prominently features the N logo for the first time, flanked by N buttons that set the desired drive mode, arranged to suit the driver's preference. Driving modes can be customised and matched to each button in various combinations to maximise IONIQ 5 N's fun driving spirit. The N Grin Boost (NGB) button positioned at 3 o'clock allows instant and intuitive access to maximised acceleration and driving fun for ten seconds. Paddles are optimally positioned at the driver's fingertips to engage N e-Shift and N Pedal features, as well as recuperation levels when the features are not in use.

IONIQ 5 N's centre console is optimised for track driving with knee pads and shin support, as well as a sliding armrest. The centre armrest is positioned, so that it will not get in the way of the driver's elbow during dynamic driving but still in a good support position for casual driving. An extension to the lower part of the console enhances rigidity to further support sport driving. For everyday use, it also offers a C-type USB, wireless charger, and cupholders. The N seats have reinforced bolsters so that even if strong lateral acceleration occurs during sharp cornering, they firmly support the upper and lower body to always maintain a stable driving posture. The N seats are positioned about 20 millimetres lower compared to the basic specification, designed for customers who pursue high-performance drivability. N emblems are arranged at the front and rear of the seat with welcome lighting at the front. The two-toned design theme of the seats carries over to the rear.

Due to the nature of N driving, IONIQ 5 N's pedals are optimised for foot contact in track driving scenarios that involve oversteer, drifting, and power slides, reducing the risk of foot slippage in two-foot driving. The footrest is optimised to always maintain a stable driving posture, including strong deceleration moments. The optimised pedal design secures left-foot braking.

Much like the IONIQ 5, sustainable materials are applied throughout IONIQ 5 N, including recyclable paperette door decorative garnish, bio PET yarn from sugarcane, recycled PET yarn from recycled PET bottles, bio TPO from sugarcane, and pure leather. IONIQ 5 N also adds recycled tyre pigment paint and recycled poly Alcantara

seat cover cloth.

Interior colour trims:

- Black with Performance Blue accents

05 IONIQ 5 N powertrain: electric performance with precision engineering

IONIQ 5 N is equipped with the latest-generation 84.0 kWh battery featuring two electric motors that running at up to 21,000 RPM. This results in an output of 448 kW/609 PS and 740 Nm of torque (478 kW/650 PS and 770 Nm with NGB engaged) because of the two-stage inverter at the rear motor with increased power for high load points or increased energy efficiency for low load points.

The model can reach a maximum of 260 km/h and accelerate from zero to 100 km/h in 3.5 seconds (3.4 seconds with NGB). The all-electric powertrain has an AER of 448 kilometres (WLTP).

Available engines:

Latest-generation 84.0 kWh battery

- Power output: 448 kW/609 PS; 478 kW/650 PS (with NGB)
- Torque: 740 Nm; 770 Nm (with NGB)
- Maximum speed: 260 km/h

Full details can be found in the technical specifications document.

06 Three pillars of N performance: Corner Rascal

IONIQ 5 N's cornering capabilities offer an enhanced driving experience through its advanced stability and traction control systems, designed to elevate the excitement of every journey. The vehicle's enhanced body structure and motor and battery mounting contribute to superior lateral rigidity. Integrated drive axles at both ends were reinforced to withstand electric motor torque. The performance braking system ensures incredible braking. Beyond technical details, IONIQ 5 N's sporty design, dedicated seats, and strengthened steering column enhance agility, support, and steering response for a driving experience that instils confidence and excitement around corners.

IONIQ 5 N's stability and traction control systems work in tandem to assist the driver in maintaining the drift, ensuring a thrilling driving experience. These Corner Rascal capabilities begin with enhancements to the body-in-white (BIW) structure with 42 additional welding points and 2.1 metres of additional adhesives. The motor and battery mounting are reinforced while front and rear subframes are enhanced for lateral rigidity. Integrated drive axles (IDA) are applied both front and rear and reinforced to endure stronger electric motor torque while reducing unsprung mass together with the wheels.

IONIQ 5 N is equipped with lightweight, in-house-developed forged 21-inch aluminium wheels and wide, high-grip 275/35R21 Pirelli P-Zero tyres, improving ride, handling, and track grip. The performance braking system comprises large 400-millimetre and 360-millimetre diameter brake discs in the front and rear, respectively. The use of lighter metallurgy with hybrid construction discs, monoblock four-piston front calipers, high friction brake pads, and dedicated air guides enhances brake heat capacity and cooling efficiency. The car features a powerful regenerative braking system inspired by motorsport, ensuring consistent braking performance and excellent heat management without the need for carbon ceramic brake discs.

The **N Brake Regen** system offers an industry-leading maximum of 0.6 G decelerative force, further enhancing the car's braking capabilities. As the primary source of brake force, it reduces the risk of brake fade due to the EV's relative heaviness. The hydraulic brakes apply additional braking force when required, ensuring enhanced endurance on the track. The seamless blending between N Brake Regen and the hydraulic brakes creates a smooth transition that is imperceptible to the driver.

The car's contained body weight is optimised using lightweight materials. In addition to the aluminium hood in the base model, aluminium wheels were incorporated into the design to help reduce overall weight and improve agility on the road. Inside the cabin, IONIQ 5 N is equipped with dedicated seats that offer excellent support during spirited driving. The fixed centre console further enhances the driving experience by providing a sense of stability and control to the driver.

To enhance steering response and feedback, IONIQ 5 N's steering column has been strengthened for improved rigidity. Additionally, the vehicle features an N-tuned Rack-Mounted Motor-Driven Power Steering (R-MDPS) system with a higher steering ratio and enhanced torque feedback. These enhancements result in a more direct and communicative steering experience that will instil greater confidence in drivers.

N Pedal was developed as a solution to address the inherent weight and size of EVs while aiming to achieve the responsive handling characteristics seen in Hyundai's championship-winning i20 N WRCs. This intelligent software function was designed to provide instant turn-in behaviour and enhanced throttle sensitivity. Drawing on similar technology used in i-Pedal's regenerative braking system, N Pedal prioritises fast and exhilarating cornering over energy efficiency. By utilising decelerative force on the rear axle, an aggressive weight transfer is created, resulting in sharper corner entry.

N Drift Optimizer helps to maintain the drift angle by balancing multiple vehicle controls responding to real-time inputs. The integrated **Torque Kick Drift** function allows the driver to simulate the clutch kick action of rear-wheel-driven ICE vehicles for driving scenarios that require more immediate drift initiation.

N Torque Distribution (NTD) provides fully variable front and rear torque distribution that can be adjusted for eleven levels, shifting power between the front and rear axles. By using the slider at the AVN screen, drivers can select their desired torque distribution ratio.

The **electronic Limited Slip Differential (e-LSD)**, located on the rear axle, controls the amount of force sent to the rear wheels – depending on driving conditions, enhances handling performance when turning at high speeds, and improves wheel-slip compensation. With an increased torque capacity of 1,800 Nm, e-LSD achieves improved reaction control to ensure optimal performance. Additional wheel sensors and broader damping capacity with increased damper size widen the performance range of the electronically controlled suspension.

07 Three pillars of N performance: Racetrack Capability

Infused with N's motorsport DNA, IONIQ 5 N is a powerhouse of cutting-edge technology and EV high-performance engineering that redefines the racetrack driving experience.

IONIQ 5 N delivers impressive performance, with a maximum power output of 478 kW/650 PS and a targeted maximum torque of 770 Nm with NGB engaged. The car is equipped with an Electronically Controlled Suspension (ECS) system to ensure driving stability and high-performance ride and handling. The driver can adjust the suspension stiffness according to the Drive Mode to optimise IONIQ 5 N's reaction to various driving conditions, whether on the road or the racetrack.

IONIQ 5 N sets a new benchmark for thermal management in severe racetrack conditions. Compared to its competitors, IONIQ 5 N boasts a higher resistance to heat-induced power degradation — loss of maximum power due to overheating. The enhanced battery thermal management system includes an increased cooling area, a better motor oil cooler, and a battery chiller. The independent radiators for the battery and motor maximise IONIQ 5 N's resistance to performance degradation before and during intense track driving.

The new N-exclusive steering wheel is equipped with three dedicated mode buttons, including the selection of the Drive Modes: Normal Mode, Eco Mode, and Sport Mode. The driver can personalise the two N Custom buttons to match high-performance components with their driving preferences and road conditions.

N Grin Boost (NGB) delivers an instant thrust from IONIQ 5 N's dual motors by increasing power output and torque for ten seconds.

N Launch Control provides the best possible acceleration and pre-torque to motors at a standstill and offers three different traction levels (low, medium, and high) for the least amount of wheel spin and the fastest possible start, allowing drivers to launch their vehicle like a professional race car.

N Race feature gives drivers direct control over the car's energy usage. IONIQ 5 N offers the change of settings at the convenience of a few button presses. Drivers are given the strategic choice to prioritise 'Endurance' or 'Sprint'. 'Endurance' maximises range on the racetrack. This is achieved by limiting the peak power, which results in a slower build-up of temperature. Comparatively, 'Sprint' prioritises power and cooling to provide shorter bursts of full energy. This will help drivers accurately manage their energy strategy and create an ideal performance window to achieve their driving performance targets.

Before intense driving sessions, the driver can utilise **N Battery Preconditioning** to optimise the battery cells to the most power-efficient temperature. Whether in Drag Mode, where the battery is primed for brief bursts of maximum power, or Track Mode, where temperature regulation is tailored for sustained performance over multiple laps, the system ensures peak battery performance under demanding conditions.

The **Track State-Of-Charge** (SOC) feature automatically calculates battery consumption per lap on a pre-set racetrack, providing the driver with lap indications and minimising range anxiety. When the track map is being used to record a lap time, battery usage from the previous lap is also recorded and displayed on the AVN.

Left-Foot Braking is a capability that allows the use of the "left-foot braking" technique when both the brake and accelerator pedals are pressed simultaneously, offering optimal control in intense driving conditions. The feature is only available when ESC is deactivated.

08 Three pillars of performance: Everyday Sportscar

A wide range of EV N-exclusive high-performance features provide a day-to-day fun driving experience for customers.

Recognising the desire for enhanced feedback in EVs, Hyundai N engineers developed N e-Shift and N Active Sound+ to offer precise control over the IONIQ 5 N's dynamic driving. The integration of both features enhances the emotional connection between the driver and the car.

IONIQ 5 N offers an exceptional driving experience by combining cutting-edge technologies to simulate the engaging feel of an ICE. **N e-Shift** emulates the behaviour of an eight-speed dual-clutch transmission (DCT) found in ICE N models, providing a sense of control over power delivery. Drivers can opt between manual and automatic shifts. Just like N DCT in manual transmission mode, N e-Shift has a hard rev limiter. When virtually shifting gears, the car generates torque feedback by simulating a jolt feeling. This unique approach to EV sound stands out by delivering not only a futuristic EV sound but also ICE-like engine and exhaust sounds, creating a more immersive driving experience.

N e-Shift goes beyond previous EV applications by replicating the sensations of an ICE, making the driving experience more interactive and enjoyable.

Paired with N e-Shift, the **N Active Sound+** system introduces three distinct sounds – 'Ignition', simulating an ICE N engine and exhaust, 'Evolution', inspired by Hyundai's EV N concept car, and 'Supersonic', resembling fighter jets. N Active Sound+ constantly remixes sound based on speed and throttle position, ensuring a dynamic and responsive auditory experience. The shifting sound is intricately connected with the N e-Shift mode, creating a harmonious integration of simulated engine sounds. This auditory experience provides drivers with an acoustic reference to gauge the power being utilised. The system features eight internal Bose® Premium Sound and two external speakers, with adjustable volume and a maximum output set within legal limits.

N Road Sense (NRS) in IONIQ 5 N takes the driving experience to a new level. NRS automatically recognises double-curved road signs and suggests that the driver activates N Mode. This intelligent system allows the driver to enjoy an even more thrilling and engaging driving experience when navigating double-curved roads.

The Electronic Stability Control (ESC) communicates with other systems, such as the Electronic Limited Slip Differential (e-LSD) and the Rack-Mounted Motor-Driven Power Steering (R-MDPS), to enable the model's cornering capabilities and torque vectoring. While ESC Normal delivers racetrack fun, ESC Sport provides the driver with even more agility and freedom.

IONIQ 5 N sets new standards with its advanced features and cutting-edge technology. Equipped with the highest capacity battery ever seen in a Hyundai EV, boasting an impressive 84.0 kWh capacity, the vehicle ensures extended range and enhanced performance. The state-of-the-art 800 V battery technology is double the industry standard, enabling ultra-fast charging from 10 to 80 per cent in just 18 minutes.

Customer who closes a contract with Digital Charging Solutions can take advantage of Plug & Charge. This feature ensures hassle-free and secure charging at compatible charge points e.g. IONITY. Drivers can instantly plug in and charge without the need for mobile apps or RFID cards, thanks to automatic EV-to-charging station authentication technology.

Integrated with Vehicle-to-Load (V2L) technology, IONIQ 5 N allows users to freely utilise or charge any electrical equipment. This innovative capability enhances the versatility of IONIQ 5 N, providing a seamless and practical solution for various scenarios. Whether it is recharging an e-bike, powering electrical camping equipment, or connecting domestic appliances, V2L technology offers a user-friendly and flexible solution.

Inside the car, the Hyundai Connected Car Navigation Cockpit (ccNC) takes centre stage with a combination of a 12.3-inch infotainment screen and a 12.3-inch digital gauge cluster. On top of this, IONIQ 5 N offers an Augmented Reality Head-Up Display (AR HUD), offering selectable AR functions that transform the windshield into a display screen. The AR HUD presents essential information like navigation, advanced safety details, and the vehicle's surroundings directly onto the driver's line of sight on the windshield. This innovative feature enables drivers to swiftly comprehend information while maintaining focus on the road ahead.

For a more personalised driving experience, the centre screen, cluster, and HUD also offer specifically designed graphics and options for N mode.

For seamless connectivity, the Wireless Power High-Speed Charger features an NFC reader for the Digital Key 2, prevents smartphone overheating through A/C cooling, and enhances charging power to 15W. The Type-C USB Charger offers multiple charging options with two ports in the front tray, one on the front centre console, and two on the rear centre console.

Digital Key 2 eliminates the need for traditional keys and brings convenience to a new level with Ultra-Wide Band (UWB) technology. Similar to a smart key, it functions from a few metres away. With UWB, users can unlock the car without needing to hold the phone close to the door handle. Without needing to place the phone on the wireless charging pad, starting the car is even more simple – users only need to push the brake and press the start button. Additionally, car sharing is simplified with the ability to share up to 15 keys with customisable restrictions.

IONIQ 5 N also introduces Over-the-Air (OTA) updates for every system in the car that can be updated wirelessly, with a primary focus on maintenance updates. up to date.

Wireless Apple CarPlay and wireless Android Auto allow IONIQ 5 customers to mirror the functionality of their iOS and Android smartphones in a simplified and convenient manner without cables.

Despite its technological advancements, IONIQ 5 N does not compromise on practicality, offering a spacious cargo area with 480 litres of storage space.

Additionally, IONIQ 5 N is equipped with a range of safety technologies and the next level of Hyundai Smart Sense Advanced Driver Assistance Systems, ensuring safety and convenience on the road.

Highway Driving Assist 2 (HDA 2) helps to maintain a set distance and speed from the vehicle ahead when driving on a highway and helps to centre the vehicle in the lane while driving, even through a curve. In case the vehicle on the side is driving very close, it assists in adjusting the vehicle's path to avoid danger. When driving above a certain speed, the driver can hold the steering wheel and use the turn signal switch. The car will automatically change lanes in the indicated direction.

Several functions work in tandem to help avoid collisions in a variety of driving situations. Blind-Spot Collision-Avoidance Assist (BCA) helps avoid collisions at the rear side of the vehicle when changing lanes. When operating the turn signal to change lanes, if there is a risk of collision detected with a rear-side vehicle, it will provide a warning. If exiting a parallel parking spot and there is a risk of collision detected with a rear-side

vehicle, it will assist with emergency braking.

A variety of features make parking in a variety of circumstances easier than before. Remote Smart Parking Assist 2 (RSPA 2) offers remote parking and helps drivers remotely exit a parking spot from outside the vehicle. This feature works for parallel, perpendicular, and even diagonal parking.

Surround View Monitor (SVM) displays video of the situation around the vehicle for safe parking. Forward/Blind-Spot Parking Collision-Avoidance Assist (PCA) helps avoid collisions with pedestrians and objects around the vehicle while parking or exiting. If there is a risk of collision with pedestrians or objects while parking and exiting, it provides a warning. After the warning, if the risk of collision increases, it automatically assists with emergency braking. Additionally, when a turn signal is used, the Blind Spot View Monitor (BVM) shows the driver what is hidden in the blind spots in the centre cluster for top visibility.

Similarly, Rear Cross-Traffic Collision-Avoidance Assist (RCCA) helps avoid collisions with oncoming vehicles on the left or right side of the vehicle while reversing. If there is a risk of collision with an oncoming vehicle on the left or right side while reversing, it provides a warning. After the warning, if the risk of collision increases, it automatically assists with emergency braking.

Forward Collision-Avoidance Assist 2.0 (FCA 2) helps to avoid collisions with objects in front of the vehicle while driving. If a preceding vehicle suddenly slows, or if a forward-collision risk is detected, such as a stopped vehicle, a cyclist, or a pedestrian, it provides a warning. After the warning, if the risk of collision remains, it will assist with emergency braking. While driving, if there is a risk of collision with a cyclist ahead, or with an oncoming vehicle while turning at an intersection, it will help assist with emergency braking.

FCA 2 is equipped with enhanced functions of Junction Turning, Junction Crossing, Lane-Changing Oncoming, and Lane-Changing Side along with Evasive Steering Assist. While driving through an intersection if there is a risk of collision with oncoming vehicles from the left or right, it automatically assists with emergency braking. When changing lanes while driving, if there is a risk of collision with an oncoming vehicle in the next lane or a preceding vehicle in the next lane, it automatically assists with avoidance steering if there is no risk of a secondary collision. And while driving, if there is a risk of collision with a pedestrian, partially in the vehicle's intended path, it automatically assists with avoidance steering if there is enough space in the current lane.

09 Technical specifications

Dimensions (mm):	(LxWxH) (WB) 4,715 x 1,940 x 1,585; 3,000
Battery capacity (kWh):	84.0
Power output (kW/PS):	448/609; 478/650 (with NGB)
Torque (Nm):	740; 770 (with NGB)
Top speed (km/h):	260
Acceleration 0-100km/h (s):	3.5; 3.4 (with NGB)
AER (km):	448

Full details can be found in the technical specifications document.

Disclaimer: CO2 and emissions data

Fuel consumption combined for the Hyundai IONIQ 5 N in l/100 km: 0.0; CO2 emissions combined in g/km: 0.0 (WLTP)

- End -

About Hyundai Motor Europe HQ

Hyundai Motor Europe HQ was formally established in 2000, with its main office located in Offenbach, Germany. Serving as the regional headquarters, it is responsible for the sale of vehicles in 47 European countries through 2,279 sales outlets, maintaining a 4.2-per-cent market share throughout 2023. More than 70 per cent of Hyundai vehicles sold in the region are models engineered, tested, and manufactured in Europe, tailored to meet the specific needs of European customers. These vehicles are produced at the company's Czech and Turkish production plants.

In 2023, approximately 14 per cent of Hyundai cars sold in Europe were zero-tailpipe-emission vehicles (BEVs and FCEVs), including respective World Car of the Year 2022 and 2023 winners, IONIQ 5 and IONIQ 6. This solidifies Hyundai's position as one of the leading manufacturers in terms of both fleet share and total sales of zero-tailpipe-emission vehicles in Europe as the company undergoes a transformation into a Smart Mobility Solutions Provider. Moreover, about 85 per cent of Hyundai's current line-up in Europe is available as an electrified version.

With a focus on its vision of 'Progress for Humanity' and a clear commitment to exclusively sell zero-tailpipe-emission vehicles within Europe by 2035, Hyundai is set to introduce more BEVs to its electric line-up. An already popular choice in Europe, the next-generation Kona Electric will see its first full year of sales in 2024. Additionally, the award-winning IONIQ 5 N, Hyundai's first high-performance mass-production BEV, will be available in Europe later this year.

Hyundai offers a unique Five-Year Unlimited Mileage Warranty package with all new cars sold in the region. This package includes a five-year warranty with no mileage limit, five years of roadside assistance, and five years of vehicle health checks, providing customers with added peace of mind.

More information about Hyundai Motor Europe HQ and its products is available at www.hyundai.news.

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About Hyundai Motor

Established in 1967, Hyundai Motor Company is present in over 200 countries with more than 120,000 employees dedicated to tackling real-world mobility challenges around the globe. Based on the brand vision 'Progress for Humanity,' Hyundai Motor is accelerating its transformation into a Smart Mobility Solution Provider. The company invests in advanced technologies such as robotics and Urban Air Mobility (UAM) to bring about revolutionary mobility solutions, while pursuing open innovation to introduce future mobility services. In pursuit of sustainable future for the world, Hyundai will continue its efforts to introduce zero emission vehicles equipped with industry-leading hydrogen fuel cell and EV technologies.