## Hyundai Ioniq

The **Hyundai Ioniq** is a compact five door liftback manufactured and marketed by Hyundai.<sup>[1][2]</sup> The nameplate *Ioniq* is a portmanteau of *ion* and *unique*.<sup>[3]</sup> It is the first automobile to be offered in hybrid, plug-in hybrid, and all-electric variants. [4]

The Ioniq Hybrid debuted in South Korea in January 2016, with all three variants debuting at 2016 Geneva and New York auto shows. [5][2] The hybrid variant launched in its home market in February 2016, followed by the electric model in July 2016. [5][6] The plug-in hybrid version followed just over a year later in September 2017. [7]

From its first (2017) model year, the Ioniq Electric has been the EPA's most efficient vehicle – including all model years and all fuel types – with a rated fuel economy of 136 miles per gallon gasoline equivalent (mpg-e) (1.7 L/100 km). [8][9] The Ioniq Blue hybrid version has been rated at 58 miles per gallon, making it the most fuel-efficient hybrid vehicle that is

mass produced.[10]

By January 2018, the Ioniq had surpassed 106,300 units sold worldwide, including over 73,800 conventional hybrids and nearly 25,000 purely electric cars as well as over 5,500 plug-in hybrid variants (which had been on sale for three months).[11]

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Manufacturer Hyundai Motor

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2016-present **Body and chassis** 

FF layout

**Class** 

Compact car 5-door liftback

**Body style** Layout

**Hyundai Ioniq (AE) Hybrid** 

**Overview** 

**Body and chassis** 

liftback

**Powertrain** 

Company

2016-present

2017-present

Compact car

transmission

1.56 kWh lithium-ion

polymer battery<sup>[12]</sup>

Hybrid electric 5-door

#### **Ioniq Hybrid**

Ioniq Hybrid rear.

or in Switzerland.<sup>[25]</sup>

Range and efficiency

**Ioniq Electric** 

deliver a range of 110 mi (180 km). [18]

with 40% thermal efficiency capable of delivering 78 kW (105 hp) and an estimated 109 lb·ft (148 N·m) of torque alone. The Ioniq Hybrid's electric motor additionally delivers an estimated 32 kW (43 bhp) with an estimated maximum torque of 125 lb·ft (169 N·m), powered by a lithium-ion polymer battery with 1.56 kWh capacity. The battery is efficiently positioned under the rear passenger seats.<sup>[12]</sup> In combination with the 1.6 litre direct injection engine, the Ioniq Hybrid offers an estimated total system output of 139 bhp (104 kW) and 195 lb·ft (264 N·m). [13]

neither the Ioniq Hybrid nor Electric are suitable for towing a trailer. [14] The Ioniq uses aluminium in the hood and tailgate, reducing weight by 27 lb (12 kg) compared with conventional steel and no measurable disadvantages in noise or vibration.<sup>[12]</sup> With a higher usage of lightweight components and a more compact build, the cargo screen cover is about 25% lighter than the types used in other Hyundai models.

Its aerodynamic design helped lower the drag coefficient of the Ioniq down to 0.24. [13] Excessive weight is reduced by utilization of high

The Ioniq Hybrid was released in South Korea in February 2016. [5] The hybrid was launched in Malaysia in November 2016. Two Ioniq

This engine has been specifically tailored to the hybrid application, and is combined with a shifting six speed dual-clutch transmission.<sup>[12]</sup> Like many hybrids and electric cars,

The Ioniq is Hyundai's first automobile built from the ground up to be specifically hybrid and electric. The hybrid version competes with, and surpasses in fuel economy, the previous

mileage leader in the Toyota Prius.<sup>[10]</sup> Sharing the same powertrain with the Kia Niro hybrid crossover, the Ioniq is powered by a 1.6 litre *Kappa* four cylinder Atkinson-cycle engine

strength steel for the structure and aluminium for non structural components.<sup>[5]</sup> Hyundai expects the model with 15 inch wheels to obtain an EPA rated combined fuel economy between 57 mpg-US (4.1 L/100 km; 68 mpg-imp) and 58 mpg-US (4.1 L/100 km; 70 mpg-imp), just ahead of the 2016 Toyota Prius Eco (56 mpg-US (4.2 L/100 km;

Hybrid trims are available, HEV and HEV Plus.<sup>[16]</sup> Many parked Ioniqs appeared in the early scenes in *Johnny English Strikes Again*, starring Johnny English, played by Rowan Atkinson.

67 mpg<sub>-imp</sub>)).<sup>[15]</sup>

EV mode.[8][9]

The all-electric model features a 28 kWh lithium-ion polymer battery (LiPo) that delivers an EPA-rated all-electric range of 124 mi (200 km). [1][17] Hyundai expected the Ioniq to

At the 2016 LA Auto Show, Hyundai announced that they are planning to extend the electric range of the Ioniq EV to more than 200 mi (320 km) by 2018. [19] The Ioniq Electric has

An integrated In-Cable Control Box (ICCB) also allows drivers to charge their Ioniq at a regular household outlet but this is recommended only for use in emergencies in countries

The charging plug of the car is located in a position where gas fillers are normally located. [1] The Ioniq features paddle shifters to allow drivers to choose from one of four levels of

regenerative braking.<sup>[18]</sup> As of 2018, Hyundai USA sells the Ioniq Electric only in California.<sup>[23]</sup> It is sold by Hyundai in other countries as well, such as in Norway<sup>[24]</sup>, Netherlands

an 88 kW (120 PS) electric motor with 295 Nm of torque, and can be charged up to 80% in 33 minutes at 50 kW or in 24 minutes at 100 kW with a DC fast charging station. [20]

with 110 volt standard outlets. [21] In most countries, with 220-240 volt standard household outlets, 100% range can be added with an overnight charge. [22]

# Manufacturer Hyundai Motor **Production** Model years **Assembly**

**Class** 

**Body style** 

Ulsan, South Korea Kulim, Malaysia (Hyundai-Sime Darby Motors)

**Engine** 1.6-liter *Kappa* four cylinder engine Power: 78 kW  $(105 \text{ hp})^{[12]}$ Electric motor 32 kW (43 bhp)<sup>[12]</sup> 6-Speed Dual-clutch **Transmission** 

**Battery** 

**Production** 

Model years

**Body style** 

**Transmission** 

**Battery** 

**Class** 

**Hyundai Ioniq (AE) Electric** 

**Overview** 

2016

**Body and chassis** 

car

**Powertrain** 

1-speed

 $(EPA)^{[17]}$ 

(NEDC)<sup>[1]</sup>

Hyundai Ioniq (AE) Plug-

in

**Overview** 

**Electric motor** Front-engine rear-

Electric range 200 km (124 mi)

Company

2017-present

Schedule for end of

All-electric Compact

5-door hatchback

battery 120hp 295nm

28 kWh lithium-ion

polymer battery<sup>[1]</sup>

280 km (170 mi)

169 km (105 mi)

(South Korea)[1]

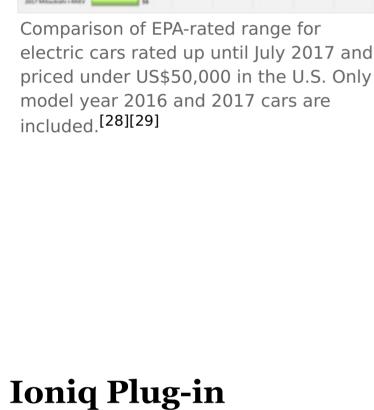
Manufacturer Hyundai Motor

on top of the electric motor

Ioniq Electric power control unit



(105 hp).<sup>[1][12]</sup>



charger (240 V). [26] The range under the New European Driving Cycle (NEDC) standard is 280 km (170 mi), [27] and 169 km (105 mi)

Under the U.S. Environmental Protection Agency (EPA) four cycle test, the 2017 Ioniq Electric combined fuel economy rating is 136

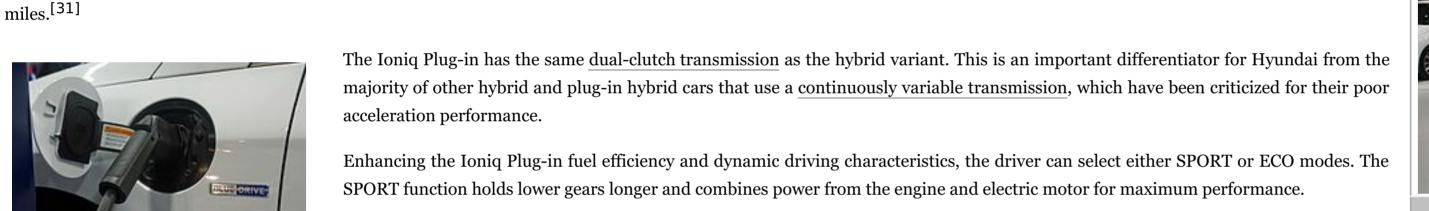
With these ratings, the Ioniq Electric became in November 2016 the most efficient EPA certified vehicle considering all fuels and of all

years, surpassing the 2014-2016 model year BMW i3, and also the 2017 Toyota Prius Prime, the most energy efficient plug in hybrid in

The 2017 Ioniq Electric has a combined EPA rated range of 124 mi (200 km). [17] Charging time is rated at 4 hours on a Level 2 fast

miles per gallon gasoline equivalent (mpg-e) (1.7 L/100 km), with an energy consumption of 25 kW·h/100 mi (15.7 kW·h/100 km).

The fuel economy rating for city is 150 mpg-e (1.6 L/100 km) and 122 mpg-e (1.9 L/100 km) in highway. [17]



The plug-in hybrid variant was released in February 2017. [30] It has an 8.9 kWh lithium-ion polymer battery (LiPo) capable of delivering 50 km (31 mi) in all-electric mode (22 miles

in real world use). The Ioniq Plug-in combines a 45 kW (61 PS) electric motor and 1.6-L GDI four cylinder Kappa engine with 40% thermal efficiency capable of delivering 78 kW

Hyundai expects the Ioniq Plug-in to achieve a combined EPA rating of 125 mpg-e (28 kW·h/100 mi; 17.1 kW·h/100 km) in all-electric mode. [12] EPA all electric range is 29



Government incentives for plug-in electric vehicles

List of modern production plug-in electric vehicles

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List of electric cars currently available

Interior

See also

Hyundai Sonata PHEV

Plug-in electric vehicle

References

The loniq plug-in charging port is

located in the driver's left side.

In ECO mode, the dual clutch transmission optimizes gear selection for efficiency, upshifting earlier to achieve better fuel economy.<sup>[12]</sup>

Manufacturer Hyundai Motor Company **Production** 2016-present **Model years** 2017 **Body and chassis** Class Plug-in hybrid Compact car **Body style** 

5-door hatchback **Powertrain Engine** 1.6-L GDI four-cylinder Kappa engine Power: 78 kW  $(105 \text{ hp})^{[12]}$ Electric motor 45 kW (60 hp)<sup>[1]</sup> 8.9 kWh lithium-ion **Battery** polymer battery<sup>[1]</sup> Electric range 50 km (31 mi) (Hyundai)<sup>[1]</sup>

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