



BMW Unveils First All-Electric 3 Series, the 2027 i3

Description

BMW's upcoming i3 electric vehicle (EV) marks a significant step in the company's drive towards greener technology. Set to be launched soon, the i3 utilises advanced technology to improve performance and sustainability, combining these features to attract both eco-conscious drivers and car enthusiasts.

Key to the i3's performance is its innovative 800 V battery pack, which incorporates new cylindrical cells. These cells are 20 percent more energy-dense compared to the flat prismatic cells used in BMW's previous generation of EVs, such as the i4. The i3 can fast-charge with a direct current (DC) output of 400 kW and boasts an estimated range of up to 440 miles (708 km), representing a 30 percent increase over earlier models.

The i3 50 xDrive variant will feature both an asynchronous motor at the front and an electrically excited synchronous motor at the rear, delivering a total output of 463 hp (345 kW). Notably, energy losses are reduced by 40 percent compared to the previous generation, and the overall design is around 10 percent lighter and 20 percent cheaper to produce. Furthermore, the i3 incorporates approximately 30 percent recycled materials, enhancing its sustainability credentials.

Driving dynamics remain a priority for BMW. The i3 maintains a near 50:50 weight distribution and a low centre of gravity, ensuring a stable ride. The vehicle allows for effective regenerative braking, handling 95 percent of braking needs, which will likely reduce the reliance on traditional brakes.

As BMW prepares for the i3's launch, attention will be focused on how well it balances performance with environmental responsibility in a competitive market.

Comprehension Questions

Multiple Choice

1. What type of vehicle is BMW's upcoming i3?

- Option: Hybrid vehicle
- Option: Gasoline vehicle
- Option: Electric vehicle
- Option: Diesel vehicle

2. What is the estimated range of the i3?



- Option: 300 miles
- Option: 440 miles
- Option: 500 miles
- Option: 600 miles

3. What is the output of the i3 50 xDrive variant?

- Option: 200 hp
- Option: 345 hp
- Option: 463 hp
- Option: 550 hp

4. What is the direct current (DC) output the i3 can fast-charge with?

- Option: 200 kW
- Option: 300 kW
- Option: 400 kW
- Option: 500 kW

5. What percentage of the i3's materials are recycled?

- Option: 20 percent
- Option: 30 percent
- Option: 40 percent
- Option: 50 percent

6. How much lighter is the i3's design compared to the previous generation?

- Option: 5 percent
- Option: 10 percent
- Option: 15 percent
- Option: 20 percent

True-False

- 7. The i3 uses flat prismatic cells in its battery pack.
- 8. The i3 can handle 95 percent of braking needs through regenerative braking.
- 9. Energy losses in the i3 are increased compared to the previous generation.
- 10. BMW aims to attract solely eco-conscious drivers with the i3.



11. The i3 features a low centre of gravity for improved stability.

12. The i3 has a battery voltage of 600 V.

Gap-Fill

13. The i3 uses an innovative _____ battery pack.

14. The energy-dense cells used in the i3 are _____ more efficient than the previous generation.

15. The vehicle's regenerative braking can handle _____ percent of braking needs.

16. The overall design of the i3 is around _____ percent cheaper to produce.

17. The i3's estimated range represents a _____ percent increase over earlier models.

18. The weight distribution of the i3 is nearly _____ to ensure a stable ride.

Answer

Multiple Choice: 1. Electric vehicle 2. 440 miles 3. 463 hp 4. 400 kW 5. 30 percent 6. 10 percent

True-False: 7. False 8. True 9. False 10. False 11. True 12. False

Gap-Fill: 13. 800 V 14. 20 percent 15. 95 16. 20 17. 30 18. 50:50

CATEGORY

1. Business - LEVEL5

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