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Tesla Model 3

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The **Tesla Model 3** is an electric four-door fastback sedan developed by Tesla.^[6] The Model 3 Standard Range Plus version delivers an EPA-rated all-electric range of 263 miles (423 km) and the Long Range versions deliver 353 miles (568 km).^[7] According to Tesla the Model 3 carries full self-driving hardware, with periodic software updates adding functionality.^{[8][9][10]}

Limited production of the Model 3 began in mid-2017, with the first production vehicle rolling off the assembly line on July 7, 2017. $\frac{111[12][13]}{112}$ The official launch and delivery of the first 30 cars took place on July 28. $\frac{141}{112}$

As of March 2020, the Tesla Model 3 is the world's best-selling electric car in history, with more than 500,000 units delivered. [15] The Model 3 was the world's top selling plug-in electric car in 2018 and 2019, $\frac{16}{127}$ and also the best-selling plug-in car in the United States. [18][19] The Model 3 was also the top selling plug-in car in Europe in 2019. [20]

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History

In an interview for <u>Wired Science</u> recorded during 2006, <u>Elon Musk</u> presented the Model 3 as likely being affordable by most people able to purchase new cars.^[21] In 2008 the car was stated to be a family car.^[22] In 2017 Tesla added that the Standard Range version of the all-electric car would have an estimated EPA-rated range of 215 miles (346 km), a fivepassenger seating capacity, front and rear trunks, and promised sports-car levels of acceleration performance.^{[23][24]} Tesla said it would have a 5-Star safety rating and have a drag coefficient of C_d =0.23.^[25] This is lower than the <u>Tesla Model S</u> drag coefficient of C_d =0.24, which, in 2014, was the lowest among the production cars of the time.^[25]

Within a week of unveiling the Model 3 in 2016, Tesla revealed they had taken 325,000 reservations for the car. These reservations represented potential sales of over US\$14 billion. [26][27] By August 2017, there were 455,000 net reservations. [28][29]

Industry experts were dubious when, in May 2016, Tesla announced its decision to advance its 500,000-total-unit build plan (combined for Model S, Model X, and Model 3) to 2018, two years earlier than previously planned, in order to accelerate its target for Model 3 output [30][31][32] As predicted, there were "production bottlenecks" and "production hell". In 2016, Tesla issued US\$2 billion in new shares to the stock market to finance the plan.[33]

The company plans for the Model 3 are part of Tesla's three-step strategy to start with a high-price vehicle and move progressively towards lower-cost vehicles, while the battery and electric drivetrain were improved and paid for through the sales of the Roadster, Model S, and Model X vehicles.^[34]

On April 18, 2018, Tesla updated its production target to 6,000 vehicles per week by the end of June 2018, an increase from its previous target of 5,000 vehicles per week which was previously promised at earlier dates.[35][36][37][38] On July 1, 2018, Elon Musk announced that Tesla had met its production goal of 5,000 cars in a week.[39][40][41]

On February 28, 2019, Tesla announced the availability of the lower-cost, highly anticipated, \$35,000, Standard Range trim. [42] However, on April 12, 2019, Tesla announced that the Standard Range model would no longer be available for ordering online, but only over the phone or in stores. <u>Autopilot</u>, previously a \$3000 option, was included in all versions of the Model 3 passed the Standard Range, while each version's price only increased by \$2,000. [43] In February 2019, the Model 3 passed the <u>Chevrolet Volt</u> to become the all-time best-selling plug-in electric car in the U.S.[44][45] Model 3 sales surpassed the Nissan Leaf in early 2020 to become the world's all-time top selling plug-in electric car. [15]

Model naming

During an interview recorded in 2006 Musk referred to "Model 2" (later Tesla Model S), and to "Model 3". [21] The Model 3 was codenamed Tesla "BlueStar" in the original business plan in 2007. [46][47] An intended name of "Model E" was not used owing to Ford's trademark for an electric vehicle expected to be released by Ford in early 2019. [48] Model 3, originally stylized as "Model \equiv ", was announced on Musk's Twitter account on July 16, 2014. [49] A 2015-presentation by JB Straubel used the name "Model III". [50] As of 2016 Musk had wanted the three models to spell SEX, but settled for "S3X". [51] In

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and a subscription of the second s	Overview
Manufacturer	Tesla, Inc.
Production	July 2017 - present
Assembly	United States: Fremont, California (Tesla Factory)
	China: Shanghai (Gigafactory 3)
Designer	Franz von Holzhausen ^[1]
Bo	dy and chassis
Class	Compact executive car (D)
Body style	4-door fastback sedan
Layout	Rear-motor, rear-wheel drive
	Dual-motor <u>all-wheel drive</u> (AWD models)
Related	Tesla Model Y
	Tesla Model S
	Powertrain
Electric motor	Permanent Magnet Synchronous Reluctance Motor
Transmission	1-speed fixed gear 9:1 ratio ^[2]
Battery	54 or 62 or 75 kWh (190 or 220 or 270 MJ) $\underline{\text{Lithium}}$ $\underline{\text{ion}^{[3]}}$
Electric range	220 miles (354 km)
	Standard Range (not available for order online)
	263 miles (423 km)
	Standard Range Plus
	353 miles (568 km) Long Range AWD/Long Range
	Performance AWD 313 miles (504 km) Long
	Range Performance AWD with Performance Upgrade
	Dimensions
Wheelbase	113.2 in (2,875 mm)
Length	184.8 in (4,694 mm)
Width	72.8 in (1,849 mm)
Height	56.8 in (1,443 mm)
	Standard Range RWD:
Curb weight	3,552 lb (1,611 kg) ^[4]
Curb weight	Standard Range plus RWE 3,627 lb (1,645 kg) ^[4]
Curb weight	Standard Range plus RWE
Curb weight	Standard Range plus <u>RWE</u> 3,627 lb (1,645 kg) ^[4] Mid Range RWD: 3,686 lb (1,672 kg) ^[4]

early 2017, after trademark opposition regarding Adidas's three stripes \log_{52} the triplicate horizontal-bar stylization was abandoned and changed to a numeric "3". [53]

The Model 3 was codenamed BlueStar during the development.[54]

Market

In September 2015, Tesla announced that the Model 3 would be unveiled in March 2016. [55] In January 2016, Musk said that the first official pictures of the car will be revealed at the end of March 2016. [56] Delivery would begin in late 2017 first on the U.S.'s west coast and then move eastwards. [57] Potential customers were first able to reserve a car at Tesla stores or online on March 31 with a refundable deposit of US\$1000. [58][59] In February 2016, Tesla indicated that the unveiling would be on March 31, 2016. [60] Employees of Tesla^{[61][62]} and <u>SpaceX</u> were given early access to Model 3 reservations. [63] and about 10,000 signed up without discount, [64] scheduled to receive the first batch of cars. [65][58] Current owners of Tesla vehicles got priority sales after employees but before the general public, as a reward for helping pay for the development of the Model 3. [58] (Employees and current owners were likely to be more tolerant of early production flaws[⁶⁶]; both the Model S and the Model X had several problems at the start of their production, [^{67][58]} and have since improved.]^[68]

On the morning of March 31, 2016, tens of thousands of people waited in lines to place the refundable deposit to reserve a Model 3 for 2017 delivery. $\frac{[69][70]}{12}$ During the Model 3 unveiling event, Tesla said that over 115,000 people had reserved the Model 3 in less than 24 hours prior; $\frac{[71][72]}{12}$ more cars than Tesla had sold by that time. $\frac{[26]}{12}$ Twenty-four hours after opening reservations, Tesla had advanced orders for over 180,000 cars. $\frac{[73][74]}{12}$ Two days later, Tesla said they had 232,000 reservations. $\frac{[26][75]}{12}$

One week after the unveiling, Tesla said it had over 325,000 reservations, more than triple the number of Model S sedans sold by the end of 2015. [26][27] Musk said that 5% of reservations correspond to the maximum of two vehicles allowed per customer, "suggesting low levels of speculation", [76] and that 93% of Model 3 reservations are from new buyers who do not currently own a Tesla. [58] The previous record for advance deposits on a car was the 1955 Citroën DS that had 80,000 deposits during the ten days of the Paris Auto Show, while the Model 3 had 232,000 reservations in two days. [26]

According to Tesla's global vice-president Robin Ren, China is the second-largest market for the Model 3 after the US.^[77] Tesla said the number of net reservations totaled about 373,000 as of May 15, 2016, after about 8,000 customer cancellations and about 4,200 reservations canceled by the automaker because these appeared to be duplicates from speculators.^{[78][79]} Upon its release in July 2017, there had been over 500,000 reservations for the Model $3,^{[S0]}$ with Musk later clarifying there were a net of 455,000 reservations outstanding, and an average of 1,800 reservations were being added per day.^{[28][29]}

Design

In 2013 design chief Franz von Holzhausen said that the Model 3 will "be an Audi A4, BMW 3 Series, Mercedes-Benz C-Class type of vehicle that will offer everything: range, affordability, and performance" that is targeted toward the mass market. (1[82] While technology from Tesla's Model S will be used in the Model 3, (83] it will be 20% smaller than the Model $S^{[84]}$ and have its own unique design. (85]

According to Tesla's CTO, <u>JB Straubel</u>, in October 2015, most Tesla engineers were working on the 3 rather than S or X.^{[86][87]} Since electric cars have lower cooling needs than combustion cars, the Model 3 does not have nor need a front grille.^[88] Musk intended for the final design to be released on June 30, 2016^[89] but when the design was finished on July 27, it was not publicly released.^[90] After the final design of the first Model 3, any further changes would be included in future versions of the Model 3.^[91] The standard glass roof developed by Tesla Glass is made of the same glass used for Tesla's roof tiles.^[92]

Production

As of December 2016, Tesla planned to increase the size of the Tesla Factory in Fremont, California, to accommodate Model 3 production. [93][94][95]

Production stages

In a 2013 interview, Jerome Guillen discussed "BlueStar" (codename for the Model 3 project), stating that Tesla was expecting to eventually produce 400,000 cars per year. $\frac{[96]}{2}$

In May 2016 Tesla told its suppliers that it intended to double earlier-announced Model 3 production targets to 100,000 in 2017 and 400,000 in 2018 due to demand, which suppliers [97][98] and many experts viewed as unattainable.[99][100] In the Tesla Factory, paint lines for 500,000 automobiles commenced in 2015, and some stamping equipment for the Model 3 was operational by August 2016.[101] Tesla bought Grohmann Engineering, experienced in automated manufacturing, in January 2017. This acquisition launched Tesla Advanced Automation Germany, which Tesla said would develop manufacturing processes to be used initially in Model 3 production.[102] According to Tesla in late 2016, the company expected to invest between US\$2 billion and US\$2.5 billion in capital expenditures ahead of the start of Model 3 production.[102]

After the two Alpha prototypes were shown (silver and black; red was a shell) in April 2016, Tesla finished the design in late July 2016. Tesla ordered parts equivalent to 300 Beta prototypes in August 2016, preparing for development of the assembly line. As of August 2016, the company intended to make release candidates for testing prior to actual production.^{[103][104]} Tesla began building Model 3 prototypes in early February 2017 as part of the testing of the vehicle design and manufacturing processes. Tesla said in late 2016 that initial crash test results had been positive.^[102] Crash test results in mid-2019 were scored at 96% for protection of children and 74% for the way it handles "vulnerable road users" such as pedestrians. In addition, the Model 3's "safety assist" mode scored 94%.^[105]

In October 2016 Tesla said its production timeline was on schedule.^{[106][107][108]} Again in February 2017, Tesla said that vehicle development, supply chain and manufacturing are on track to support volume deliveries of the Model 3 in the second half of 2017. Limited vehicle production began in July 2017 and volume production was scheduled at that time to start by September 2017. As of February 2017, Tesla planned to <u>ramp up</u> production to exceed 5,000 vehicles per week in Q4 2017 and reach 10,000 vehicles per week in 2018.^[102] However, Tesla missed their Q4 production target by a wide amount, as only 2,425 vehicles were produced during the entire 3-month period.^{[109][100]} Five months before, Musk claimed on Twitter that Tesla would be able to produce 20,000 Model 3 per month by December 2017. Tesla's actual production numbers were therefore 93% lower than his prediction.^[109]

<u>Giga Nevada</u> had been intended to produce battery packs for Model 3 and it was announced in January 2017 that Tesla would also manufacture drive units at Giga Nevada.^[111] In February 2017, Tesla said that installation of Model 3 manufacturing equipment was underway in the Fremont factory and at Giga Nevada, where in January, production of battery cells for energy-storage products began, which have the same form factor as the cells that will be used in Model 3.^[102]



About 125 people in line to reserve a Tesla Model 3 in <u>Walnut Creek</u>, California



Chinese-spec Tesla Model 3 in Shanghai



Center-mounted 15.4-inch (39 cm) LCD touchscreen^[81]

Deliveries

In February 2016 Tesla expected to repeat the delivery schedule of the S and X models: selling at first the highest-optioned cars with higher margins, to help pay for production equipment.^[112] However, after the lessons learned from the complicated Model X production, Tesla changed its delivery schedule in early 2017 to produce relatively simpler cars initially, in order to reduce production risk. The first mass-produced Model 3 cars were rear-wheel drive with the long-range battery.^[113] Deliveries began in the second half of 2017 as predicted,^[57] but not in the numbers Tesla had hoped. As industry experts had predicted, Tesla did not meet the announced delivery targets.^{[112][113]} The first delivery was on July 7, 2017, to Musk himself^[114] and the first 30 production units were delivered on July 28, 2017.^[115]

2017

In early July 2017 Musk forecast at least six months of serious production difficulties.^[131] Tesla's announced goal at that time was to produce 1,500 units in the third quarter of 2017, increasing to 5,000 per week by end of December 2017,^[132] but only 260 vehicles were manufactured during the third quarter. The company blamed production bottlenecks, but said there were "no fundamental issues with the Model 3 production or supply chain" and expressed confidence about its ability to resolve the bottlenecks in the near future.^{[133][134]}

Tesla delivered just 1,542 Model 3 cars in the fourth quarter of 2017, $\frac{[117]}{1}$ about 2,900 less than Wall Street estimations, which were already halved previously after Tesla published the company's third quarter report. $\frac{[135]}{13}$ By early November 2017, Musk had postponed the target date for manufacturing 5,000 of the vehicles per week from December 2017 to March 2018. $\frac{[136][136]}{136}$ An analyst with Cowan and Company, an investment banking firm, said in November 2017 that "Elon Musk needs to stop over-promising and underdelivering". $\frac{[137]}{137}$ Customer deliveries totaled 1,764 units in 2017. $\frac{[116][117]}{117}$

2018

Prior to a planned shutdown in mid-April 2018 to further increase production, Tesla produced more than 2,000 Model 3 vehicles for three straight weeks.^[118] Global deliveries passed the 100,000 unit milestone in October 2018.^[138] U.S. Model 3 sales reached the 100,000 unit mark in November 2018, hitting this milestone quicker than any previous model sold in the country.^[139]

During the first half of 2018, the Model 3 was the top-selling <u>alternative fuel vehicle</u> in California with 12,674 units, followed by the <u>Toyota Prius</u> conventional <u>hybrid</u> (10,043). [140] The Model 3 was the top-selling <u>plug-in electric car</u> in the U.S. for 12 months in a row since January 2018, ending 2018 as the best-selling plug-in with an estimated all-time record of 139,782 units delivered, the first time a plug-in car sold more than 100,000 units in one year. [141][18][142] Additionally, the Model 3 ranked as the best-selling <u>luxury</u> vehicle in the American market in 2018. [143] The Model 3 also topped plug-in electric car sales in California in 2018, with 51,293 units registered, as well as the state's best selling car in the near luxury category. [144][145]

The Model 3 listed as the world's best selling plug-in electric car in 2018.^[16] In 2018, Elon Musk predicted that eventual global demand would likely be between 500,000 and 1 million Model 3 cars per year—ranking in between the BMW 3 Series and the Volkswagen Golf.^[146]

2019

Retail deliveries in Europe and China began in February 2019.^{[147][148]} Delivery of the first right-hand drive vehicles began in June 2019, starting with the UK^[149] and later in Australia and New Zealand.^[150] Similarly to how the first US-made Model 3s were delivered to employees in July 2017, the first Chinese-made Model 3 cars were delivered to employees at the end of 2019.^[151]

In January 2019 the Model 3 overtook the Model S to become the U.S. all-time best selling all-electric car, [152] and, the next month, also passed the <u>Chevrolet Volt</u> to become the all-time top selling plug-in electric car in the U.S. [44] Since inception, an estimated 300,471 Model 3 cars have been delivered in the American market up to December 2019. [153]

The Tesla Model 3 ended 2019 as the world's best selling plug-in electric car for the second consecutive year, with just over 300,000 units delivered. [16][17] The electric car also topped annual plug-in car sales in the U.S. (158,925) and California (59,514) markets for the second time in a row. [141][144][19][154] And again listed as the California's best selling car in the near luxury category in 2019. [154]

The Model 3 also ranked as the best selling plug-in car in Europe in 2019, with over 95,000 units delivered in its first year in that market, and outselling other key premium models.^[20] Also set records in Norway and the Netherlands, listing in both countries

not only as the top selling plug-in car but also as the best selling passenger car model in the overall market. [155][156] The sales volume achieved by the Model 3 in 2019 (15,683) is the third largest in Norwegian history, exceeded only by the Volkswagen Bobla (Beetle) in 1969 (16,706), and Volkswagen Golf in 2015 (16,388). [157] The Model 3 set a new record in the Netherlands for the highest registrations in one month (22,137) for any single plug-in vehicle in Europe. [158]

The Model 3 also was the top selling plug-in car in Canada, Spain, Belgium, Denmark, Switzerland, Australia, New Zealand, Taiwan and Mexico. [159][160]

2020

Until 2019, the Nissan Leaf was the world's all-time top selling highway legal plug-in electric car, with global sales of 450,000 units by December 2019.^[161] The Tesla Model 3 surpassed Leaf sales in early 2020 to become the world's best selling plug-in electric car ever.^[15] Global sales since inception totaled almost 525,000 units up to March 2020.^[116][117][124][126]

As of early April 2020, Tesla has released only aggregated production/delivery numbers for Model Y and Model 3 combined, at 87,282 units produced. This is slightly higher than any previous quarter for Model 3 alone. [126] This included a record 11,200 Model 3s sold in the new market of China, more than double any other plug-in car sold in during March, where the car has led Chinese plug-in passenger car segment sales in each month of the first quarter of 2020. [162]

Concerns

In May 2018 Consumer Reports found "big flaws, such as long stopping distances in our emergency braking test and difficult-to-use controls", finding the braking



Tesla Model X (left) and Model 3 (right) at the unveiling event on March 31, 2016

	Tesla Model 3 vehicles per quarter						
1	Quarter	Model 3 vehicles produced					
-	2017 Q3 ^[116]						
l	2017 Q4[117]						
	2018 Q1 ^[118]						
9	2018 Q2 ^{[119][120]}						
	2018 Q3 ^{[121][122]}						
3	2018 Q4 ^{[123][124]}						
L	2019 Q1 ^[125]						
	2019 Q2 ^[126]						
5	2019 Q3 ^[127]						
	2019 Q4 ^[126]						

Tesla Model 3/Y vehicles per quarter

 Quarter
 Model 3/Y vehicles produced

 2020 Q1^[126]
 2020 Q2^[128]

 2020 Q3^[129]
 2020 Q3^[129]



The Model 3 has been the world's best selling plug-in electric car for two years in a row, 2018 and 2019 [16][17]

By early 2020, the Tesla Model 3 became the world's all-time best

selling plug-in electric car.[15]

distance was worse than a Ford F-150 full-size truck, and branding the Model 3 "not recommended". Tesla responded to the claims with concern and, over the next weekend, released an <u>OTA update</u> for the anti-lock braking algorithm. Consumer Reports, impressed with the prompt OTA update, verified the improved braking performance and changed their rating to a recommended model.^{[163][164]}

In February 2019 Consumer Reports revoked the Model 3 recommendation because "many customers have reported problems with the [car], including loose body trim and glass defects." $\frac{[166]}{16}$ As with Model S and Model X, Model 3 production flaws were reduced over time. $\frac{[166]}{16}$ In November 2019 Consumer Reports reinstated the Model 3 recommendation, claiming it was the fifth-most reliable of twelve compact luxury cars. $\frac{[167]}{16}$

During long-term testing of a Model 3 in December 2019, *Car and Driver* experienced a rear inverter short after 5,286 miles and 3 months of ownership.^[168] It was their first long-term vehicle to suffer such a major failure while parked.^[169]

In 2020, due to the coronavirus outbreak, closure of the Shanghai factory at the end of January, and supply chain issues, Tesla used the 2.5 version processor instead of the 3.0 processor that Chinese users expected to find in their vehicles. This led to mass complaints. Tesla promised to upgrade the hardware free of charge once the supply chain is restored. [170]

Specifications

Engineering and changes

As production began in 2017, the base Model 3 was announced to have a 50-kWh battery with a range of about 220 miles (350 km) while the optional 75-kWh battery would have a range of about 310 miles (500 km). $\frac{[3][171]}{10}$ Tesla did not produce base Model 3s in 2017 or 2018. The battery uses 2170-size lithium-ion cells. $\frac{[172][173]}{10}$

The 350-volt (nominal, 400v max) Model 3 battery packs are made of four longitudinal modules each containing the groups (bricks). The Standard Range version carries 2,976 cells arranged in 96 groups of 31. The Long Range version carries 4,416 cells arranged in 96 groups of 46, and weighs^[174] 1,060 pounds (480 kg) in a 0.40 m³ volume; a density of 150 Wh/kg.^{[175][176]}



First production Tesla Model 3 cars ready for the delivery event on July 28, 2017

Tesla continues to improve the design of the 2170 battery cell and introduces incremental improvements into the manufacturing line periodically.^[177] Tesla began manufacture of the "lighter, better, cheaper"^[178] 2170 cell during 2018, with a company goal of

reducing the <u>cost</u> of assembled battery packs to US\$100 per kilowatt-hour (kWh) by December 2018, and moving the new cell into volume production at Giga Nevada during the first quarter of 2019. <u>Electrek</u> reported in late 2018 that the improved battery cell design was needed to further reduce battery costs as Tesla was planning to begin to deliver the Model 3 Standard Range for the promised base price of US\$35,000 the following year. [178]

The inverter for the Model 3 drive unit uses 24 pairs of Silicon Carbide (SiC) MOSFET chips rated for 650 volts each.[179]

In July 2018 media reported that a Model 3 prototype was seen in California and Nevada while towing a trailer in an apparent evaluation of a <u>tow bar.^[180]</u> In May 2019 Tesla started offering an optional tow bar rated for 2,000 pounds (910 kg) available with Standard Range Plus and Long Range for the European Model 3.^[181] [182][183] Towing a trailer may increase consumption by 40%.^[184]

The Model 3 uses regenerative braking, which was tweaked and improved in October 2018 via a software update.[185]

In October 2019 Tesla released a software update including a 5% power upgrade and peak power optimization to owners of the Model 3, via software version 2019.36.2.1, which showed noticeable improvements in acceleration and overall speed. [186] In December 2019, Tesla offered Long Range dual-motor Model 3 owners who had software version 2019.40.2 the option to purchase a US\$2000 "Acceleration Boost" software upgrade enabling a Sport driving mode, [187] advertised to reduce 0-60 mph time from 4.4s to 3.9s. Road testing confirmed better-than-expected acceleration with drivers in Sport mode reaching 0-60 mph in 3.67s from standstill and 3.47s with a 1 foot rollout. [188]

The Model 3 is mostly steel, with some aluminum.^[189] The 185 cm (6.07 ft) width was chosen to fit with <u>automated parking systems</u> in Japan. Due to its smaller size, the Model 3 is expected to consume less energy than the Model Y, and thus have longer range.^[190]

Traditional <u>stability control</u> is not made for dual-motor control or the faster response time in electric motors, and Tesla modified the control unit.^[191] The motors have magnets arranged in a Halbach array.^[192] The cooling system is integrated to reduce size and cost.^[193]

Specifications table

Special Request only Discontinued Current

Battery	attery Standard Range Standard Range Plus Mid Range		Long Range				
Powertrain	RWD	RWD	RWD	RWD	AWD	AWD Performance	
Production	March 2019 – present		October 2018 – March 2019 ^[194]	March 2019 – June 2019 ^[195] (previously July 2017 – November 2018)			
Base price (US market)	US\$35,400 ^[196] (call or in- store order only) US\$37,990 (Autopilot Included) ^[4]		(was US\$40,000 ^[4])	(was US\$46,500 ^[4]) (call or in-store order only)	US\$46,990 (Autopilot Included) ^[4]	US\$54,990 (Autopilot Included) ^[4]	
EPA: 220 miles (354 km) ^[4] EPA: 263 miles (423 km) ^[4] WLTP: 381 km 237 mi WLTP: 430 km 237 mi WLTP: 430 km 267 mi 267 mi		EPA: 264 miles (425 km) combined 270 miles (430 km) city 248 miles (399 km) highway <u>WLTP</u> : 457 km 284 mi <u>NEDC</u> : 514 km 319 mi	EPA: 325 miles (523 km) combined 332 miles (534 km) city 318 miles (512 km) highway WLTP: 600 km 373 mi NEDC: 675 km 419 mi	EPA: 353 miles (568 km) combined 319 miles (513 km) city 296 miles (476 km) highway WLTP: 580 km 360 mi	EPA: 315 miles (507 km) combined 319 miles (513 km) city 296 miles (476 km) highway WLTP: 567 km 352 mi		
Efficiency	26 kWh/100 miles (16 kWh/100 km) <u>MPGe:</u> 131 miles (211 km) combined 138 miles (222 km) city 124 miles (200 km) highway	24 kWh/100 miles (15 kWh/100 km) MPGe: 141 miles (227 km) combined 148 miles (238 km) city 132 miles (212 km) highway	27 kWh/100 miles (17 kWh/100 km) MPGe: 123 miles (198 km) combined 128 miles (206 km) city 117 miles (188 km) highway	26 kWh/100 miles (16 kWh/100 km) MPGe: 130 miles (209 km) combined 136 miles (219 km) city 123 miles (198 km) highway	29 kWh/100 miles (18 kWh/1 MPGe: 116 miles (187 km) com 120 miles (193 km) city 112 miles (180 km) high	bined	
Battery capacity	50 kWh (180 MJ) ^[197]	54 kWh (190 MJ) ^[198]	62 kWh (220 MJ)	75 kWh (270 MJ) ^{[199][173][5][2}	200]		
DC charging	130 miles (209 km) range available after 30 minutes ^[201]	up to 170 kW (V3 Supercharger) ^[202]	up to 200 kW (V3 Supercharger) ^[202]	up to 75 mi (121 km) in 5 mir V3 Supercharger)	nutes ^[203] and 180 mi (290 km) in 15 minutes ^[204] (250 kW		
AC charging	g 29.5 miles (47.5 km) range per hour (240 V 32 A) ^[197] 32 miles (51 km) range per hour (240 V 32 A) ^[197]		28.4 miles (45.7 km) range per hour (240 V 32 A) ^[197]	44.3 miles (71.3 km) range per hour (240 V 48 A) ^[197]	39.7 miles (63.9 km) range per hour (240 V 48 A)[197][2		
Full charge time (10% -> 90%)			7.5 hours	6 hours	6.5 hours		
Powertrain	Single-motor rear-wheel drive[4][206][207]		11		Dual-motor all-wheel drive ^[4]		
Motor	Interior Permanent Magnet (I	PM) synchronous machine ^[208]	[209][210]		Interior Permanent Magnet (IPM) synchronous rear & induction machine front ^{[208][209][210]}		
Curb Weight	3,552 lb (1,611 kg) ^[4]	3,627 lb (1,645 kg) ^[4]	3,686 lb (1,672 kg) ^[4]	3,805 lb (1,726 kg) ^[4]	4,072 lb (1,847 kg) ^[4]		
Power (peak)	211 kW (283 hp) ^[211]	211 kW (283 hp)[211]	211 kW (283 hp) ^[211]	211 kW (283 hp)[211]	258 kW (346 hp)[212]	340 kW (450 hp) ^[213]	
Power-to- weight	131 W/kg (12.6 lb/hp)	128 W/kg (12.8 lb/hp)	126 W/kg (13.0 lb/hp)	122 W/kg (13.4 lb/hp)	166 W/kg (9.9 lb/hp)	191 W/kg (8.6 lb/hp)	
Torque (peak)	450 N·m (330 lb·ft)[211]	450 N·m (330 lb·ft)[211]	450 N·m (330 lb·ft)[211]	450 N·m (330 lb·ft)[211]	510 N·m (376 lb·ft)[212]	639 N·m (471 lb·ft)[213]	
Acceleration	0–60 mph (0–97 km/h) 5.3 seconds advertised[4]	0–60 mph (0–97 km/h) 5.3 seconds advertised[4] 0–100 km/h (0–62 mph) 5.6 seconds advertised	0–60 mph (0–97 km/h) 5.2 seconds advertised ^[4]	0–60 mph (0–97 km/h) 5.0 seconds advertised ^[4] (4.6 seconds tested ^[214])	0-60 mph (0-97 km/h) 4.2 seconds advertised[4] seconds (4.0 seconds tested)[212] seconds 0-100 km/h (0-62 mph) seconds 4.4 seconds advertised seconds Optional Sport Mode: 0-60 0-97 km/h) 3.9 advertised seconds (3.7 seconds tested)[188] seconds 0-100 km/h (0-62 mph) km/h	0–60 mph (0–97 km/h) 3.1 seconds advertised[4] (3.0 seconds tested)[215] 0–100 km/h (0–62 mph) 3.3 seconds advertised	

					4.0 seconds advertised				
Quarter Mile	TBD	13.5 sec @ 104.9 mph	TBD	13.6 sec @ 101.9 mph	12.5 sec @ 113.1 mph Optional Sport Mode: 11.9 sec @ 116.2 mph ^[216]	11.5 sec @ 116.5 mph ^[217]			
Top speed	130 mph (209 km/h) ^[4]	140 mph (225 km/h) ^[4]	140 mph (225 km/h) ^[4]	162 mph (261 km/h) ^[219]					
Wheels	18-inch (457 mm) diameter 8.5-inch (216 mm) width 21.3 lb (9.7 kg), aero wheel covers 2 lb (0.91 kg), 235/45R18 tires 20-inch (508 mm) 8.5-inch (220 mm) 235/35R20								
Roof	Tinted glass roof with ultraviolet and infrared protection, with mounting points for a roof rack (sold separately).[220][221] A single pane of glass extends from the center of the roof to the trunk.[206]								
Autonomous capability	Autopilot including TACC, au radar, 8 cameras, 12 sonar, a	Autopilot including TACC, autosteer, lane-keeping, lane-changing, active-safety autonomy. ^{[206][222]} (All vehicles include all hardware needed for "Full Self-Driving", including 1 radar, 8 cameras, 12 sonar, and Al computer.)							
Luggage	Rear 12 cu ft (340 L) and from	nt 3 cu ft (85 L) trunks with 15 o	cu ft (425 L) (542 L EU specs)	total volume ^{[206][4][223][224][225]}	1				
Rear seat	60/40-split-folding rear seat	26][227]							
Display	Single center-mounted 15.4-	Single center-mounted 15.4-inch (39 cm) LCD touchscreen in landscape orientation that combines the instrument cluster and infotainment (4)[228][229]							
Entry	Keyless NFC keycard and Bl	uetooth Low Energy smartpho	ne connection for vehicle acce	ss; ^{[230][231]} optional key fob.					
Performance Upgrade package	Perfor wheel spoile 162 m speed softwa								
			Options						
Wheels	19-inch (480 mm) diameter 8	8.5-inch (220 mm) width 29.5 lb	(13.4 kg), 235/40R19 tires			Not available			
Paint	Pearl White Multi-Coat, Solid	Black, Midnight Silver Metallic	, Deep Blue Metallic, Red Mul	ti-Coat (discontinued: Silver M	etallic & Obsidian Black Metall	ic ^{[232][233]})			
Interior	Black	Black or White							
Standard Interior package	Standard package: tinted glass roof with ultraviolet and infrared protection; heated front seats; auto dimming, power tolding, heated side mirrors; music and media over Bluetooth; custom driver profiles; basic audio; standard maps and navigation; center console with storage and 4 USB ports								
Partial Premium Interior package	Upgradeable if delivered with software locked interior ^[234]	Standard package plus: 12-way power adjustable heated front seats; upgraded audio – immersive sound; docking for 2 smartphones	Not available						
Premium Interior package	Not available Partial Premium Interior package plus: rear heated seats; premium audio – 14 speakers, 1 subwoofer, 2 amps, and immersive sound; LED fog lamps; satellite-view maps with live traffic visualization and navigation; In-car internet streaming music & media; internet browser. Location-aware automatic garage door opener can be added for \$300.[25]								
Driver assistance	"Full Self-Driving" including Navigate on Autopilot, Autopark, Summon, etc. Since all vehicles include all sensor hardware, optional Full Self Driving capabilities can be enabled later if not ordered at time of vehicle purchase.								
assistance		· · · · · · · · · · · · · · · · · · ·							

Safety

Following crash testing in 2019, the Model 3 performed very well, receiving five stars in every category from the <u>National Highway Traffic Safety</u> Administration^{[236][237]} and a 94% <u>Euro NCAP</u> score in <u>active safety</u>.^{[238][239]}

NHTSA (US)[240]		Euro NCAP[241]		ANCAP ^[242]		IIHS (US)[243]		Crash test videos
Overall	*****	Overall	*****	Overall	****	Small overlap front, driver side	Good	MHTSA Frontal crash (https://ww w.youtube.com/watch?v=tnpE55qm
Frontal, driver	*****	Adult occupant	36.7 pts / 96%	Adult occupant	36.70 pts / 96%	Small overlap front, passenger side	Good	TSM) on YouTube
Frontal, passenger	*****	Child occupant	42.3 Pts / 86%	Child occupant	42.88 Pts / 87%	Moderate overlap front	Good	youtube.com/watch?v=zDhSdKFhfj k) on YouTube
Side, driver	*****	Vulnerable Road Users	35.7 Pts / 74%	Vulnerable Road Users	35.69 Pts / 74%	Side	Good	MHTSA Side pole crash (https://
Side, passenger	*****	Driver assist	12.3 Pts / 94%	Driver assist	12.35 Pts / 94%	Roof strength	Good	www.youtube.com/watch?v=ABEzn FFbmJw) on YouTube
Side pole, driver	*****					Roof strength	Good	EuroNCAP crash tests (https://e uroncap.newsmarket.com/find-a-car
Rollover	*****/ 6.6%					Head restraints & seats	Good	/all/tesla-model-3/s/739f2657-8cff-4f 64-89c1-f7d3dbb7e098)
						Headlights	Good ^[244]	MNCAP crash test (https://www.y
				1		Front crash prevention	Superior ^[245]	outube.com/watch?v=2TiQ_KYRx

Reception

- Car-design columnist and former car designer for <u>GM</u> <u>Robert Cumberford</u> said the Model 3 "is an excellent design" and praised the front fascia skin that he thinks is superior to the black plastic simulated grille of the pre-refresh Model S.[246][247] Cumberford praised the Model 3's minimalist design, and "elegant simplicity" akin to Apple products.[248] Although he criticized the car's spoiler, he said the Model 3 has a design that would age well, and "in 10 years it will still look contemporary and beautifully understated, not old and irrelevant."[248]
- <u>Motor Trend</u> said the nose was controversial and polarizing, but probably intentionally so.^[249] <u>Vanity Fair</u> and others compared the Model 3 to the Ford Model T for its intended affordability as a volume-produced electric vehicle^{[250][251][252][253]} and for its limited set of options, namely range, wheels and exterior color of which all but black costs extra.^{[254][255]} Automotive journalist Doug DeMuro said the Model 3 was better, though \$2,000 more expensive, than the <u>BMW 340i</u> and that it was the "coolest car of the year," later clarifying that this was based on the "long waiting lists, obsessive interest and news stories.^[256] <u>Alex Roy</u> said that DeMuro's review had concentrated on hardware details and missed out on the bigger picture.^[253]
- Automotive-industry analyst Toni Sacconaghi of AllianceBernstein said after driving one of the early Tesla vehicles in November 2017 that "Overall, we found the Model 3 to be a compelling offering, and believe it is likely to further galvanize the overall Electric Vehicle category." He was less impressed with build quality of the test samples. "Fit and finish on the two demo cars we saw—perhaps not surprisingly—was relatively poor." He said that there were quality issues at first with the Model X which led to some concern. "This is going to be a much, much higher-volume car, and if there are any quality issues, that could overwhelm the service centers and undermine the Tesla brand." Nonetheless, Sacconaghi was impressed with the ride quality, performance and interior space, and concluded that the 3 "risks cannibalizing the [much more expensive] Model S going forward."[257]
- <u>Road & Track</u>'s Bob Sorokanich said the "Model 3 proves that Tesla is thinking far beyond the edges of the Model S and X. Stepping out of the 3, you realize that, as far as the S and X pushed the envelope, they were always meant as intermediaries, stepping stones designed to draw people away from comfortable convention and into the future of the automobile. ... The Model 3 is Tesla at its most unabashed. It's an automaker finally willing to abandon the <u>skeuomorphism</u> of a false radiator grille, the tradition of a driver-oriented gauge panel."^[258]
- In 2018, a Model 3 was driven 606.2 miles (975 km) on a single charge, setting a hypermiling driving record.[259]
- In early 2019, Kelley Blue Book announced that the Tesla Model 3 was the winner of the "Best Resale Value Award" for all automobiles in the US market "with a projected 69.3% resale value after 36 months and 48.7% after 60 months."

Awards

- Popular Mechanics named the Tesla Model 3 as the magazine's 2018 Car of the Year. [261] Model 3 was given the 2018 Design of the Year award by Automobile magazine. [248]
- In the United Kingdom, the Model 3 was named 2019 Car of the Year by <u>Auto Express</u> magazine, [262] and 2020 Car of the Year by <u>Parkers</u> magazine, where it was also named "Best Electric Car" and "Best Company Car", and won the "Best Safety" award for any vehicle on the market.[263]
- The Model 3 won best mid-size car in the 2019 <u>Das Goldene Lenkrad</u> Golden Steering Wheel awards.
- The Model 3 was named the top rated electric car of 2019 by Edmunds.com, as well as being named Edmunds' top-rated Luxury Electric Vehicle for 2020[265].[266]
- In late 2019, the Model 3 was also named a Top Safety Pick+ by the <u>IIHS</u>.^[267] The Model 3 also won Car of the Year in Denmark, Car of the Year 2020 in Norway, and Swiss Car of the Year 2020. [268]
- The Model 3 was named as UK Car of the Year 2020 by a panel of 29 motoring journalists. The director of the awards stated that the car's "technology, performance and range" were converting opinions in favour of electric vehicles.^[269]

See also

- Government incentives for electric vehicles have been established by authorities around the world
- List of electric cars currently available
- List of modern production plug-in electric vehicles
- List of production battery electric vehicles
- List of Easter eggs in Tesla products
- Tesla Supercharger

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Tesla Model 3s in colors Silver Metallic (left) and Midnight Silver (right)

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