

2022 FORD F-150 LIGHTNING

TECHNICAL SPECIFICATIONS



Preproduction computer-generated vehicle shown. Available starting spring 2022.

BODY

Construction/materials	High-strength steel frame, high-strength, military-grade aluminum alloy body and bed
Body style	SuperCrew® four-door with 5.5-foot bed
Final assembly location	Rouge Electric Vehicle Center

POWERTRAIN/DRIVETRAIN

	Standard-Range Battery	Extended-Range Battery
Drivetrain Layout	Dual eMotor, front/rear transverse mounted, four-wheel drive	
Motors/configuration	Two inboard three-phase fixed magnet AC motors with internal PMAC controller and transaxles	
Targeted Peak Power (hp/kW)*	426/318	563/420
Targeted Peak Torque (lb.-ft.)*	775	775
Motor Build Location	Van Dyke Transmission Plant	

*Calculated via peak performance of the electric motor(s) at peak battery power. Your results may vary. Horsepower and torque are independent attributes and may not be achieved simultaneously.

BATTERY/ENERGY STORAGE

	Standard-Range Battery	Extended-Range Battery
Battery type	Lithium-ion pouch with internal battery management, liquid cooled	
Onboard charger power (input/output)	11.3 kW/10.5 kW	19.2kW/17.6 kW
Battery assembly location	Rawsonville Components Plant	

TARGETED CHARGE TIMES*

	Standard-Range Battery	Extended-Range Battery
LEVEL 3		
150 kW DCFC 15-80%	44 minutes	41 minutes
50 kW DCFC 15-80%	91 minutes	122 minutes
LEVEL 2		
80A Ford Charge Station Pro 15-100%	10 hours	8 hours
48A Connected Charge Station 15-100%	10 hours	13 hours
32A/240W Mobile Charger 15-100%	14 hours	19 hours

*Charge time based on manufacturer computer engineering simulations. The charging rate decreases as battery reaches full capacity. Your results may vary based on peak charging times and battery state of charge.

TARGETED MILES/CHARGE*

	Standard-Range Battery	Extended-Range Battery
10 minutes, 150kW DC Fast Charge	41 miles	54 miles
1 hour, 80A Ford Charge Station Pro	19 miles	30 miles
1 hour, 48A Ford Connected Charge Station	19 miles	20 miles
1 hour, 32A/240W Mobile Charger	14 miles	13 miles

*Excludes Platinum models. Range and charge time based on manufacturer computer engineering simulations and analytical projection consistent with U.S. EPA combined drive cycle. The charging rate decreases as battery reaches full capacity. Your results may vary based on peak charging times and battery state of charge. Actual range varies with conditions such as external environment, vehicle use, vehicle maintenance, lithium-ion battery age and state of health.

TARGETED EPA-ESTIMATED RANGE*

	230	300
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*Excludes Platinum models. Based on full charge. U.S. EPA-targeted range reflecting current status based on analytical projection consistent with U.S. EPA combined drive cycle. Actual range varies with conditions such as external environment, vehicle use, vehicle maintenance, lithium-ion battery age and state of health. Horsepower, torque, and EPA Estimated Fuel Economy Ratings are independent attributes and may not be achieved simultaneously.



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CHARGING UNIT

	Standard-Range Battery	Extended-Range Battery
32A Ford Mobile Charger	Standard	Standard
48A Ford Connected Charge Station	Optional	Optional
80A Ford Charge Station Pro with Ford Intelligent Backup Power capability	Optional	Standard

EXTERIOR DIMENSIONS (Preproduction estimates. Measurements in inches unless otherwise noted.)

Wheelbase	145.5
Overall length	232.7
Cab height	78.9
Width - excluding mirrors	80.0
Width - including standard mirrors	96.0
Width - standard mirrors folded	83.6
Track width - front	68.1
Track width - rear	68.3
Overhang - front	37.8
Overhang - rear	49.4
Angle of approach (degrees)	25.4
Angle of departure (degrees)	24.2
Ramp breakover angle (degrees)	17.8
Ground clearance	8.9
Open tailgate to ground	37.2
Front bumper to back of cab	155.9
Front trunk liftover height	35.0

INTERIOR DIMENSIONS (Preproduction estimates. Measurements in inches unless otherwise noted.)

Seating (occupants)	5
Front headroom	40.8
Front legroom SAE (maximum)	43.9
Front shoulder room	66.7
Front hip room	62.5
Rear headroom	40.4
Rear legroom SAE (maximum)	43.6
Rear shoulder room	66.0
Rear hip room	62.6

BED & FRONT TRUNK CAPACITIES (Measurements in inches unless otherwise noted.)

Inside length (at floor)	67.1
Width between wheelhouses	50.6
Inside height	21.4
Cargo box volume	52.8 cubic feet
Front trunk volume	14.1 cubic feet (400 liters)

CAPABILITY*

	Standard-Range Battery	Extended-Range Battery
Targeted Maximum Payload (lbs.)	2,000	1,800
Targeted Maximum Towing - Max Trailer Tow Package (lbs.)	7,700	10,000

*Payload and towing are independent attributes and may not be achieved simultaneously.

SUSPENSION

Front configuration	Independent double-whishbone with coil-over shocks, stabilizer bar
Rear configuration	Independent semi trailing arms, coil springs, stabilizer bar



SELECT STANDARD/OPTIONAL FEATURES

	Pro	XLT	Lariat	Platinum
BATTERY/CHARGING				
Standard-Range Battery	S	S	S	-
Extended-Range Battery	0 (fleet only)	0	0	S
EXTERIOR FEATURES				
Power up/down hood	S	S	S	S
Front trunk	S	S	S	S
Tailgate with lift assist	S	S	-	-
Power down tailgate	-	0	-	-
Power up/down tailgate	-	-	S	S
Carbon Black fixed extended running boards with enhanced lighting	-	S	S	S
Power-deployable running boards	-	-	0	0
EXTERIOR LIGHTING				
LED projector headlamps with dynamic bending and LED signature lighting	S	S	S	S
LED taillamps	S	S	S	S
Signature hood lighting	-	S	S	S
Signature tailgate lighting	-	-	S	S
LED box lighting with Zone Lighting	-	0	S	S
WHEELS				
18-inch machined aluminum with black high gloss pockets	S	S	-	-
20-inch Dark Carbonized Gray aluminum	-	0	S	-
22-inch bright machined aluminum with Ebony Black painted pockets	-	-	-	S
TECHNOLOGY				
SYNC® 4 with Enhanced Voice Recognition, 12-inch landscape LCD capacitive touch screen	S	S	-	-
SYNC® 4A with Enhanced Voice Recognition, 15.5-inch portrait orientation LCD capacitive touch screen	-	-	S	S
Apple CarPlay® and Android Auto™ compatibility	S	S	S	S
Wireless Ford Power-Up Updates	S	S	S	S
Connected Built-In Navigation	S	S	S	S
12-inch Digital Productivity Screen	S	S	S	S
Intelligent Access	-	0	S	S
Push button start	S	S	S	S
360-degree camera	0	S	S	S
FordPass Connect™ with 4G LTE Wi-Fi hotspot capability for up to 10 devices	S	S	S	S
Phone As A Key functionality	-	-	0	S
B&O Sound System by Bang & Olufsen with HD Radio™ (including 8 speakers and subwoofer)	-	-	S	-
B&O Sound System Unleashed by Bang & Olufsen with HD Radio™ (including 18 speakers and subwoofer)	-	-	-	S

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SELECT STANDARD/OPTIONAL FEATURES (CONTINUED)

	Pro	XLT	Lariat	Platinum
Rain-Sensing Wipers	-	0	S	S
SEATING				
Vinyl front bucket seats, 2-way manual driver/passenger	S	-	-	-
Cloth front bucket seats, 8-way power driver's seat with power lumbar, manual passenger lumbar	-	S	-	-
Cloth heated front bucket seats, 8-way power driver's seat with power lumbar, manual passenger lumbar	-	0	-	-
Leather-trimmed, heated and ventilated front seats, 10-way power driver's seat and multi-adjustable power passenger seat with power lumbar, memory driver's seat	-	-	S	-
Premium Nirvana leather seating surfaces with black tuxedo stripes, heated and ventilated, front MultiContour with Active Motion [®] , 10-way power driver's seat and multi-adjustable power passenger seat with power lumbar, memory driver's seat	-	-	-	S
Flow-through console with stowable floor shifter	S	S	S	S
Max Recline Seats	-	-	-	0
PRODUCTIVITY/CAPABILITY				
2.4kW Pro Power Onboard – 120V outlets: Two in the cab, two in the bed and four in the front trunk	S	S	-	-
9.6kW Pro Power Onboard – 120V outlets: Two in the cab, four in the bed and four in the front trunk, plus a 240V outlet in the bed	0	0	S	S
Interior work surface	-	S	S	S
Tailgate work surface	0	0	S	S
Class IV trailer hitch	S	S	S	S
FORD CO-PILOT360™ TECHNOLOGY				
Ford Co-Pilot360™ 2.0 – Pre-Collision Assist with Automatic Emergency Braking (Includes Pedestrian Detection, Forward Collision Warning and Dynamic Brake Support), BLIS [®] with Cross-Traffic Alert, Lane-Keeping System (Includes Lane-Keeping Alert, Lane-Keeping Aid and Driver Alert), Rear View Camera, Auto High Beam headlamps, Reverse Sensing System, Reverse Brake Assist and Post-Collision Braking	S	S	S	S
Ford Co-Pilot360™ Assist 2.0 – Intelligent Adaptive Cruise Control with Stop-and-Go, Lane Centering and Speed Sign Recognition, Evasive Steering Assist, Intersection Assist, Connected Built-In Navigation	-	0	S	S
Ford Co-Pilot360™ Active 2.0 – BlueCruise, Driver Assist, Active Park Assist	-	-	0	S

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SELECT STANDARD/OPTIONAL FEATURES (CONTINUED)

	Pro	XLT	Lariat	Platinum
SAFETY/SECURITY				
AdvanceTrac® with RSC	S	S	S	S
Airbags – Driver and front-passenger front and seat-mounted side airbags, Safety Canopy® side-curtain airbags	S	S	S	S
Curve Control	S	S	S	S
MyKey®	S	S	S	S
Perimeter anti-theft alarm	S	S	S	S
SOS Post-Crash Alert System	S	S	S	S
Tire pressure monitoring system	S	S	S	S
Advanced Security Pack	-	-	S	S
SecuriCode® keyless entry keypad	-	S	S	S

PACKAGES

Tow Technology Package – includes Pro Trailer Backup Assist, Pro Trailer Hitch Assist, Trailer Reverse Guidance, Trailer Brake Controller, Smart Hitch, Onboard Scales, Trailer Camera, Smart Trailer Tow Connection	0	0	0	S
Max Trailer Tow Package	0	0	0	S

WARRANTY

Bumper-to-Bumper	3 years/36,000 miles
Electric vehicle unique component	8 years/100,000 miles*
Aluminum body panel	5 years/unlimited miles
Paint adhesion	5 years/unlimited miles
Roadside assistance	5 years/60,000 miles

*Battery is covered for 8 years or 100,000 miles, whichever comes first, retaining a minimum of 70% of its original capacity over that period.