

FORD F-150 LIGHTNING

TECHNICAL SPECIFICATIONS



Computer-generated vehicle shown.

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	
Targeted Peak Power (hp/kW) ¹	452/337	580/433
Targeted Peak Torque (lb.-ft./Nm) ¹	775/1050	775/1050
Motor Build Location	Van Dyke Transmission Plant	

¹Calculated via peak performance of the electric motors 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	
Battery size	98 kWh of usable energy ²	131 kWh of usable energy ²
Onboard charger power (input/output)	11.3 kW/10.5 kW	19.2kW/17.6 kW
Battery assembly location	Rawsonville Components Plant	

²Based on manufacturer calculation using computer engineering simulations. Your results may vary.

ESTIMATED CHARGE TIMES³

	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%	13 hours	19 hours

³Charge 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.

ESTIMATED MILES/CHARGE⁴

	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, 30A/240W Mobile Charger	13 miles	13 miles

⁴Excludes 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.

EPA-ESTIMATED RANGE⁵

240	320 (XLT, LARIAT)/300 (Platinum)
-----	----------------------------------

⁵Based on full charge. Actual range varies with conditions such as external environment, vehicle use, vehicle maintenance, and lithium-ion battery age and state of health.



FORD F-150 LIGHTNING

CHARGING UNIT

	Standard-Range Battery	Extended-Range Battery
30A Ford Mobile Charger (120V/240V)	Included	Included
48A Ford Connected Charge Station	Optional	Optional
80A Ford Charge Station Pro with Ford Intelligent Backup Power capability ¹	Optional	Included

¹When home is properly equipped.

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

Wheelbase	145.5
Overall length	232.7
Cab height	78.3
Width - excluding mirrors	80.0
Width - including standard mirrors	96.0
Width - standard mirrors folded	83.6
Track width - front (curb)	68.1
Track width - rear (curb)	68.3
Overhang - front	37.8
Overhang - rear	49.4
Angle of approach (degrees)	24.4
Angle of departure (degrees)	23.6
Ramp breakover angle (degrees)	17.6
Ground clearance	8.4
Open tailgate to ground	36.7
Front bumper to back of cab	155.9
Front trunk liftover height	34.5

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)

CAPABILITY²

	Standard-Range Battery	Extended-Range Battery
Maximum Payload (lbs.)	2,235 ²	1,952 ³
Maximum Towing (lbs.)	5,000 ⁴	7,700 ⁴
Maximum Towing with Max Trailer Tow Package (lbs.)	7,700 ⁴	10,000 (XLT/LARIAT)/8,500 (Platinum) ⁴

²Payload and towing are independent attributes and may not be achieved simultaneously. ²Max payload with Pro trim and Standard-Range battery. Max. payload varies and is based on accessories and vehicle. ³Max payload on XLT High (XLT 312A) with available extended-range battery. Max. payload varies and is based on accessories and vehicle configuration. See label on door jamb for carrying capacity of a specific vehicle ⁴Max towing varies based on cargo, vehicle configuration, accessories, and number of passengers.

SUSPENSION

Front configuration	Independent double-wishbone with coil-over shocks, stabilizer bar with heavy-duty gas pressurized monotube shocks
Rear configuration	Independent semi trailing arms, coil springs, stabilizer bar with heavy-duty gas pressurized twin tube shocks

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 up/down tailgate	-	0	S	S
Carbon Black fixed extended running boards with enhanced lighting	-	S	S	S
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 Enhanced 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
Wireless Apple CarPlay® and Android Auto™ compatibility	S	S	S	S
Wireless Ford Power-Up Software Updates	S	S	S	S
Connected Built-In Navigation¹ (3-year trial)	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 Unleashed Sound System by Bang & Olufsen with HD Radio™ (including 18 speakers including subwoofer)	-	-	-	S

¹Navigation services require SYNC®4 and FordPass Connect (optional on select vehicles), complimentary Connected Service and the FordPass app (see FordPass Terms for details). Eligible vehicles receive a complimentary 3-year trial of navigation services that begins on the new vehicle warranty start date. Customers must unlock the navigation service trial by activating the eligible vehicle with a FordPass member account. After the complimentary trial, the connected navigation service will terminate, and the system will revert to embedded offline navigation. Service contract is required for connected navigation services. Connected service and features depend on compatible AT&T network availability. Evolving technology/cellular networks/vehicle capability may limit functionality and prevent operation of connected features. FordPass App, compatible with select smartphone platforms, is available via a download. Message and data rates may apply.

BANG & OLUFSEN© 2021 and B&O© 2021. BANG & OLUFSEN™ and B&O™ are registered trademarks of Bang & Olufsen Group. Licensed by Harman Becker Automotive Systems Manufacturing Kft. All rights reserved.

SELECT STANDARD/OPTIONAL FEATURES (CONTINUED)

	Pro	XLT	Lariat	Platinum
Rain-Sensing Wipers	-	0	0	S
SEATING				
Vinyl front bucket seats, 4-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, 10-way power driver's seat with power lumbar, multi-adjustable power front passenger seat	-	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, 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
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 step (includes 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 Navigation¹ (3-year trial)	-	0	S	S
Ford Co-Pilot360™ Active 2.0 – Ford BlueCruise™ Active Park Assist 2.0 (includes Phone As A Key)	-	-	0	S

¹Navigation services require SYNC®4 and FordPass Connect (optional on select vehicles), complimentary Connected Service and the FordPass app (see FordPass Terms for details). Eligible vehicles receive a complimentary 3-year trial of navigation services that begins on the new vehicle warranty start date. Customers must unlock the navigation service trial by activating the eligible vehicle with a FordPass member account. After the complimentary trial, the connected navigation service will terminate, and the system will revert to embedded offline navigation. Service contract is required for connected navigation services. Connected service and features depend on compatible AT&T network availability. Evolving technology/cellular networks/vehicle capability may limit functionality and prevent operation of connected features. FordPass App, compatible with select smartphone platforms, is available via a download. Message and data rates may apply.

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
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
FordPass Trailer Theft Alert ¹	S	S	S	S

¹FordPass Connect (optional on select vehicles), the FordPass App., and complimentary Connected Service are required for remote features (see FordPass Terms for details). Connected service and features depend on compatible AT&T network availability. Evolving technology/cellular networks/vehicle capability may limit functionality and prevent operation of connected features. Connected service excludes Wi-Fi hotspot.

PACKAGES

Tow Technology Package – includes Pro Trailer Backup Assist, Trailer Reverse Guidance, Trailer Brake Controller, Smart Hitch, On-board Scales, Smart Trailer Tow Connection, Forward Sensing System (included on Pro; standard on XLT+)	0	0	0	S
Max Trailer Tow Package	0	0	0	S

WARRANTY

Bumper-to-Bumper	3 years/36,000 miles ²
Electric vehicle unique component	8 years/100,000 miles ³
Aluminum body panel	5 years/unlimited miles ²
Paint adhesion	5 years/unlimited miles ²
Roadside assistance	5 years/60,000 miles ²

²Whichever comes first

³Battery is covered for 8 years or 100,000 miles, whichever comes first, retaining a minimum of 70 percent of its original capacity over that period.

Some features may not be available. Contact your dealer for more information.

FORD F-150 LIGHTNING

