

# Carbon Joy Ultra E-bike - Technical Specifications

## General Info

<b>Model:</b>	Carbon Joy Ultra E-bike
<b>Net Weight:</b>	42 lbs w/o acc.
<b>Material:</b>	Carbon fiber (frame, fork)
<b>Range:</b>	Up to 70 miles  *The 70-mile range was tested with a 180 lb rider, riding in ECO mode on flat roads without throttle.
<b>Top Speed:</b>	20mph by default, 25mph upon unlock
<b>Total Weight Limit:</b>	330 lbs
<b>Rider Height:</b>	4'11" - 6'3"
<b>Brakes:</b>	TEKTRO hydraulic disc brake with power cut-off sensor
<b>Wheels:</b>	Kenda 20"x3.0", Thru-Axle

## Ebike System

<b>Class:</b>	Class 2
<b>Motor:</b>	500W (Peak Power 750W) rear hub, 60Nm
<b>Throttle:</b>	Yes (up to 20mph)
<b>Battery:</b>	529.2Wh, Samsung Li-ion, certified to UL-2271
<b>Pedal Assist:</b>	4 levels (Eco, Tour, Boost, Turbo)
<b>Charger:</b>	3.5hrs fast charger
<b>Sensors:</b>	Torque sensor
<b>Lights:</b>	Front: External light, 30 Lux / Rear: External tail light (Not ARES lights)
<b>Water Resistance:</b>	IP65

## Drivetrain

<b>Chainrings:</b>	50T
<b>Crankset:</b>	Aluminum alloy, 152mm
<b>Cassette:</b>	12-32T, 8 Speed
<b>Chain:</b>	Shimano 8 speed
<b>Rear Derailleur:</b>	Shimano 8 speed
<b>Shift Lever:</b>	8 Speed Trigger
<b>Pedals:</b>	PP, 103 x 84 x 24mm

## Cockpit

<b>Handlebar:</b>	Aluminum, extender 0-60 degrees adjustable
<b>Grips:</b>	Durable ergonomic Grips, lockable

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**Comfort Saddle:** 273x160x75mm

**Seat Post:** Aluminum Alloy 2-stage adjustable design - Diameter:  $\phi$ 30.9mm(inner)  
 $\phi$ 34.9mm(outer), Adjustment range: 100mm(inner) 120mm(outer)