

NEW

Product
Images



Studio images coming soon

MSRP

Pre Order \$2,399

(\$2,699 After August 23rd due to the U.S. e-bike tariff)

Ships

Starting in October 2018

Product
Overview

The pinnacle of e-bike commuting

Powerful 750 Watt geared hub motor with class 3 capable (28 mph) performance and more. Integrated 52 Volt and 19.2 Ah down-tube battery with range up to 100 miles. Carefully refined dual torque and cadence sensing pedal assist system. LCD display with advanced features designed for commuters. Comes fully-loaded with Schwalbe Marathon Plus tires, a rack, fenders, a 1,050 lumen front head light and more.

Features
Overview

Standard Features

- 750 W Bafang Geared Hub Motor
- 28 MPH Top Speed / Class 3
- 52 Volts Advanced Battery System
- 19.2 Ah Hyper Extended Range Battery
- 25 Amp Peak Controller
- Race Track Mode Setting
- Tektro Hydraulic Disc Brakes
- LCD Advanced Matrix Display
- Schwalbe Marathon Plus Tires
- Torque and Cadence Pedal Sensor
- Thumb Throttle Included
- 9 Speed Shimano Cassette Transmission
- LED Front and Rear Lights
- Rear Rack and Fenders Included
- Ergonomic Grips

Color
Options



Brushed Aluminum / Glossy

Black / Flat

Red / Glossy

Frame
Sizes

- M: 16.5"
- L: 18.0"
- XL: 20.0"

Motor

750 Watts / Bafang Motor (8Fun)

- 1,300 Watts peak power @ 25A
- Geared hub motor for higher torque
- Super high speed winding
- Low-drag freewheeling clutch
- Shimano cassette standard

Included
Battery Pack

52V / 19.2 Ah Hyper Extended Range Battery

- 52 Volts system (14S6P Configuration)
- 995 Wh Capacity
- LG Chem (Korea)
- 45 Amp High rate BMS
- 84 Cells / 18650 Type
- Custom designed wide format inclosure
- Lockable and removable from the bike
- On-bike and off-bike charging capable
- 8 Amp charge capable
- 4-Pin XLR Charge Port
- Dual fuse setup
- IP 67 Illuminated power button
- 3C Discharge rating
- 600 Charge cycles to 60%

Controller

9 Transistor / 25 Amp Peak

- Sine wave FOC
- Customized tuning algorithm
- Thermally managed
- 48V LED light output
- Overboost function
- Fully potted resintant construction
- Cruise control function
- Walk function
- XT60 connectors
- Firmware upgradable

Performance

Class 3 Capable: 28 mph (45 km/h)

Default Configuration: Class 2 E-Bike
Optional Configuration: Class 3 and Class 1 E-Bike

Classification	Power Limit	Pedal Assist	Throttle Operation
USA Class 2 / 750W (Default Configuration)	Set NDW to 4	20 mph (32 km/h)	20 mph (32 km/h)
USA Class 3 / 750W	Set NDW to 4	28 mph (45 km/h)	20 mph (32 km/h)
USA Class 1 / 750W	Set NDW to 4	20 mph (32 km/h)	Not allowed
Europe 250W / 25 km/h	Set NDW to 1	15 mph (25 km/h)	Not Allowed
Europe S-Pedelec / 45 km/h	Set NDW to 4	28 mph (45 km/h)	Not Allowed
Race Track Mode	Set NDW to 5	~ 33 mph (52 km/h) @52 V	20 mph (32 km/h)

Default configuration is Class 2 (20 mph and 750 Watts) Road and bike path legal in most states. The power system is user-settable to any of the other modes from the LCD Display. Check with local regulations before operating your e-bike on public roads or paths.

Throttle
Control

Thumb Throttle (included)

- Right or left side mountable
- Throttle can be removed if desired
- Throttle set to 20 mph per e-bike regulations

Pedal Sensors

Advanced Dual Input Torque and Cadence Sensors

Torque sensor (included)

Rear Drop-out frame-mounted strain gauge
1,000 samples per second

Cadence sensor (included)

104 poles per crank revolution (maximum)
Digitally filtered output

Controller Software

Athletically tuned assist software using the torque sensor, cadence sensor, speed measurement, voltage and controller temperature to modulate motor output. Intelligent pedal assist and throttle blending algorithms.

Display Interface

LCD Matrix Display (included)

Matrix Display with 120 x 64 Pixels
Customized interface with 3-button layout
7 Levels assist: 0, ECO, 1, 2, 3, SPORT (28 mph), RACE (Unlimited)
Basic and Advanced display modes
Water resistant IP65
Backlit illuminated display
5 Pin quick-connect cable with brass lock-ring

Advanced Display Mode

Toggle Advanced Display Mode to see following real-time metrics:

Speed	Trip Distance	Volts	Wh/mi Efficiency
Amps	Watts	Controller Temperature	Odometer
Amp-Hours	Watt-Hours	Assist Level Setting	

Throttle-Assist Boost® (TAB)

Instantly add up to 1,000 Watts (20 Amps) of boost when pedaling and simultaneously holding down the throttle. TAB available in any assist setting from 0 mph up to 20 mph.

Active Cruise Control Function

Locks in any speed below 20 mph. Speed will be maintained without pedaling or using the throttle until: the brake is applied, pushing any button or giving additional throttle input. Pedaling can increase the speed, but e-bike will return to the pre-set speed if pedaling stops.

Walk Function

Push-button throttle limited to 6 kmh to assist when pushing or walking bike.

LED Head Light Control

Turn on the LED headlight light from the display console. Option to allow the headlight always stay on.

Display Backlight Control

Turn on the display's backlight to see the screen at night. Option to allow the headlight to always stay on.

Torque Sensor Deactivation Function

Turn off the torque sensor signal. The pedal assist will only use the cadence sensor input.

Speed Limiter

Set the maximum speed limit of the throttle or pedal assist system.

Assist Level Limiter

Set the maximum assist level that can be selected: ECO, 1, 2, 3, Sport or Race

Low Voltage Limiter

Set the lowest voltage allowed by the electric drive system. Used to control how deeply the battery is allowed to discharge.

Display Brightness level

Set the brightness level of the display

Wheel Circumference input

Set the precise wheel circumference in mm.

Race Track Mode

Pedal assist is set to the most aggressive setting. The bike is not electronically speed limited. The top speed will be limited only by the power available to the motor. Use this setting on non-public roads only.

Power Off Delay

Set the inactivity duration before the bike automatically turns off.

Assist System's Functions



Charger

- **52V / 2 Amps Standard charger (included)**
 - 2 Amps max charge rate
 - 3 Pin XLR Connector
 - UL Certified
 - On-bike and off-bike charging
- **52V / 8 Amps Advanced fast charger (optional)**
 - Grin Tech / Cycle Satiator
 - 8 A max charge rate
 - 3 Pin XLR Connector
 - UL Certified
 - 80% Charge setting
 - Storage charge setting
 - Fully programmable
 - Water resistant
 - On-bike and off bike charging
 - 4-Pin XLR
 - Compatible with the 78 Cell Super and Hyper Extended Range packs only

Range

Riding Range with included 52 V / 19.2 Ah battery (995 Wh)			
Riding Style	Wh / mi	Range Miles	Range km
Economy Riding	10 wh/mi	100 Miles	166 km
Medium Speed Riding	15 wh/mi	66 Miles	111 km
Fast Speed Riding	20 wh/mi	50 Miles	83 km
Aggressive Riding	30 wh/mi	33 Miles	55 km

Wire Harness

- **Wire harness (standard)**
 - 1-to-4 Quick connect cable
 - Brass lock-ring
 - Water resistant

Frame

6061 Aluminum Heat Treated Frame

- Integrated & removable down-tube battery
- Custom Designed Hidden cable channel system
- CNC battery compartment
- Hydroformed top tube
- Dual water bottle cage mount
- Rear pannier rack mount
- Fender stay mounts
- Dual kickstand mounts
- 275 lbs (120 kg) total payload rating

Wheels

- Double walled aluminum alloy
- 36 Hole 19mm inner wheel width
- 12G / 13G brass grommets
- High pressure rim strip
- Flat Black

Spokes

- Front:** 13G Black / 230.5 mm
- Rear:** 12G Heavy duty / Stainless / Black / 275.5 mm

Tire

Schwalbe Marathon Plus

- 700C x 45C (45-622) / 28" x 1.75"
- Achieves the highest level of puncture protection available
- E-Bike Ready (ECE-R75) : Approved and tested for E-bikes up to 50 km/h
- GreenGuard layer is 5 mm thick
- "Anti-Aging" sidewall
- Reflective sidewall strip for better visibility
- 40-70 PSI Recommended tire pressure

Brakes

Tektro HD-E350 Hydraulic Disc

- Rotors:** Front: 180 mm / Rear: 180 mm
- Pad:** High performance metal ceramic compound / B01S Style



2019 CrossCurrent X

Detailed
Specifications

Transmission
Derailleur

Shimano Altus 9 Speed
11-32T / Cassette / Trigger shifter

Transmission
Chain Ring

Pro Wheel 52T
Aluminum CNC / 170 mm
Outside chain guide
Inside chain catcher to eliminate chain drops

Chain

KMC K99 BR
Rust Buster
9 Speed Compatible
128 links

Fork

Suntour NCX Suspension Fork
Hydraulic lockout
Adjustable spring rate
1-1/8 Threadless
Fender stay mounts
Standard quick release

Grips

Velo / Ergonomic lock-on grips

Handle Bar &
Stem

Handle Bar: Promax Stem DA-247 / 80 mm +7 / DEG rise / 31.8 mm clamp
Stem: Promax Handle Bar / 680 mm width / 31.8 mm

Seat Post &
Seat

Seat: Selle Royal / Lookin / Gel
Seat Post: Promax 31.6 mm seat post
Seat Post Clamp: Promax quick release seat post clamp

Mud Guard

Front and rear mud guards Included / Flat black

LED
Head Light

Front LED Light (included)
1,050 Lum
CREE 10W
10-60V input
Aluminum body design
Powered by main battery
Waterproof design IP69
Display controlled on/off function

LED
Tail Light

Rear LED Light (included)
Star Union Rear LED Taillight
Blinking and steady mode
Includes reflector
Battery included

Rear Rack

Custom Designed Rack (included)
Pannier Rail
Light / Reflector holder
50 lb (25 kg) rack payload

Pedals

Platform Pedals
Wellgo B249DU
Polymer bearing



2019 **CrossCurrent X**

*Detailed
Specifications*

Weight

Total: 57.6 lbs (26.2 kg)
Bike: 46.0 lbs (20.9 kg)
Battery: 11.6 lbs (5.3 kg)

Bike Weight Limits: 275 lbs (125 kg) total payload rating
Rack Weight Limits: 50 lb (25 kg) rack payload

Warranty

1 Year coverage on electrical components
2 Year coverage on mechanical
Lifetime coverage on frame

Packing Dimensions

71" x 12" x 33" (L x W x H)
Optimized for easy setup
Front wheel and pedals removed
Handle bars shipped installed on bike
Includes all necessary assembly tools
Bike + Box: 70 lbs (31.8 kg)

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