



TECHNICAL SPECIFICATION

EBMX X-9000 Controller

Controller Casing Features

- CNC Air Cooled Heatsink option
- CNC Water Cooled Heatsink option
- Direct Factory Fit Mount for SurRon LBX and Talaria Sting
- Ingress Protection IP67 Rated
- 16 Pin Communications Plug (combines all types of bikes used)
- 12 Pin 12v Plug (4 programmable outputs)
- In Built Programmable DCDC Converter (12v-5A) to run any number of applications (coolant pump, lights, auxiliary features)



Controller Performance

- Compatible with VESC[®] firmware
 - Custom EBMX firmware and tune profiles
 - Field Oriented Control (FOC)
 - Input Voltage Range 40v - 100v
 - Working Voltage Range 48v - 82v
 - Max Phase Current 900A
 - Max Battery Current 500A
 - Peak Input Power 40kW
 - Peak Output Power 35kW*
 - Continuous Output Power (water cooled heat sink) 20kW *
 - Continuous Output Power (air cooled heat sink) 15kW *
 - Operating Temperature Range -25 to 80 Degrees Celsius
 - Maximum Efficiency >95%
 - Extra Beefy Internal CNC Machined Terminals and Connections
- * To reach peak and continuous output power levels you will require a motor and battery capable of performing at this level



Controller Kit Extras and Features

- Harness Adaptors for SurRon and Talaria
- Variable Thumb Throttle
- Bluetooth module
- Loose Harness for 12v Outputs
- SW102 Display (with custom EBMX firmware and options)
- DIY Harness for Custom Bike Conversion (optional)
- Water Cooled Heatsink (optional)

Custom Tunes for Various Motor Options

- Stock SurRon Light Bee Motor
- Stock Talaria Sting Motor
- KO Moto Motors
- SurRon Ultra Bee Motor
- QS 138-90H Water Cooled Motor
- QS 138-V3 Gear Reduction Motor
- ME1803 Water Cooled Motor
- Artic Leopard Motor
- More coming soon



EBMX App Features

- Free to download
- Use as a Display with Full Dashboard (customisable)
- Street Mode (3 separate programmable power settings)
- Race Mode (3 separate programmable power settings)
- Speed Limit Settings
- Control 4 separate 12v outputs
- Power Adjustments (kW)
- Control options for thumb throttle
- Torque Adjustments (phase amps)
- Fully customisable regen settings
- Throttle Sensitivity (ramping and curve type)
- Throttle Calibration Wizard
- Motor Tune Selection
- Quick change from 48v up to 72v Battery
- Stock Tilt Sensor (on/off)
- Stock Stand Sensor (on/off)
- Gear Ratio Adjustments for accurate display speed

