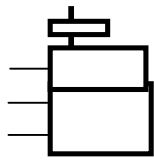# KU120 12 Mosfets 500W Brushless Motor Controllor Wire Connection diagram

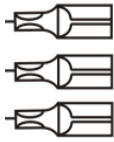**Power wire (3P Plug)**
Red :Power anodic; Black:Cathodal; Orange(small wire):power key on/off lock
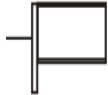Connect Red to Orange(small wire): power on.
Disconnect Red to Red (small wire): power off.   -RED TO ORANGE-

Motor wire(3*Φ4 bullet holes)
Yellow: Phase A; Green: Phase B; Blue: Phase C   -NO GREEN, GREEN&RED-

Motor hall sensor wire(6P Plug)   -NO GREEN&RED, GREEN
Red :5V; Black: GND; Yellow: Hall phase A; Green: Hall phase B; Blue: Hall phase C

1+1 Pedal assisted wire (3P SM Plug)
Red :5V; Black: GND; Green&Red: Signal

Throttle wire (3P Plug)
Red: 5V; Black: GND; Green: Signal

Low voltage brake wire (2P Plug)
White&Blue: signal; Black: GND

High voltage brake wire (2P Plug)
White&Blue: signal

Meter wire(Φ4 bullet holes)
Brown: speed signal   -NO BROWN. PURPLE-

Cruise wire(a loop grey wire)
Connected: Cruise; Disconnected: no Cruise

Automatic study wire: SM wires (White)
Plug in: automatic study; disconnected after automatic studied
overhead the motor, plug in the SM wires, then connect the power, and motor will rotate automatically and then stop; after several rotation,the motor rotate clockwise, then disconnect the SM wires, and the controller will memorize this phase sequence eternally.

Instructions: After all the connections is finished, switch on the battery and twist the throttle, the controller will idenfity the motor automatically and begin to run; if the motor runs in a anti-clockwise direction, please exchange any two of the phase wires of the motor.

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