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JY01 BLDC Controller

Posted on August 27, 2018 by Jan

A JY01 based BLDC Controller cost < 10.- USD and can deliver 500W. They support 12-36V and 15A driving the motor using either Hall Sensors or BEMF. I bought one of these for testing and are quite impressed over what they have done. The Driver area for 3 phases is twice as large as my own with 4 phases, but they use TO220 MOSFET's and include the Capacitors. They do not attempt Phase current sensors etc, but this design is a good, low cost alternative.

This first is a BEMF controlled one and do not support Hall Sensors.

This second have a few more connections allowing direct Hall Sensor input.