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MOTOR DRIVERS

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SyRen 25
SyRen 50
Sabertooth 2X5
Sabertooth 2X5 R/C
Sabertooth 2X12
Sabertooth 2X12 R/C
Sabertooth 2X25
Sabertooth 2X32
Sabertooth 2X60

RADIO CONTROL

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CellShield
DoubleSwitch
LipoShield
PicoSwitch
Servo Pigtails
SportBEC

R/C LIGHTING

DELight Starter Kit
DELight Controller
DELink
DELight Single LEDs
DELight Strip LEDs
EasyLights
Sinewinder Lights

DC TO DC

3.3V Switching Regulator
5.0V Switching Regulator
1A Adjustable Switching
Regulator
3A Adjustable Switching
Regulator
HV Adjustable Switching
Regulator
AnyVolt 3
AnyVolt Micro
LVBoost
Negatron
Breakout Boards

SENSORS

Buffered 2g Accelerometer
Buffered 6g Accelerometer
Buffered 3D Accelerometer

MOTION CONTROL

Kangaroo x2

ABOUT

Sabertooth dual 12A motor driver for R/C

Price:	64.99	Add to Cart
Weight:	43g / 1.5oz	Lead Time
International Shipping:	3.00	~6 weeks

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Product Description

New Features/Updates:

1 Amp Switching BEC
  - Can now power your receiver and multiple servos

12 Amp Continuous/25A Peak Power Rating
  - A redesigned power stage increases current handling capabilities

Acceleration Ramping
  - Selectible by DIP switches. *Replaces the flip function.*

Sabertooth 2X12 R/C is a dual motor driver specifically optimized for use in radio controlled vehicles. It is suitable for medium powered robots, cars and boats. The Sabertooth 2x12 R/C replaces our 2x10 RC controller.

Out of the box, it can supply two DC brushed motors with up to 12A each. Peak currents of 25A are achievable for a few seconds. Overcurrent and thermal protection means you'll never have to worry about killing the driver with accidental stalls or by hooking up too big a motor.

This special R/C edition of our motor driver comes with options for exponential control, autocalibration and built-in mixing. The operating mode is set with the onboard DIP switches so there are no jumpers to lose.

Sabertooth is the first synchronous regenerative motor driver in its class. The regenerative topology means that your batteries get recharged whenever you command your robot to slow down or reverse. Sabertooth also allows you to make very fast stops and reverses - giving your vehicle a quick and nimble edge.

Sabertooth has a built in 5V Switching BEC that can provide power to a microcontroller or R/C receiver and a servo or two. The lithium cutoff mode allows Sabertooth to operate safely with lithium ion and lithium polymer battery packs - the highest energy density batteries available.

Sabertooth's transistors are switched at ultrasonic speeds (32kHz) for silent operation.

If you need more advanced control features, check out Sabertooth 2X12. For something smaller, check out Sabertooth 2X5 R/C.

Use of our motor drivers with cheap AC adapters is not

recommended. **Use a battery or at least put a battery in parallel with a DC supply.**

Need to control a weapon too? BattleSwitch can help.

Product Specs

Model:	Sabertooth 2X12 R/C
Specifications:	Up to 24V in: 12A continuous, 25A peak per channel 24V in: 10A continuous, 12A continuous with additional heatsinking/airflow, 25A peak per channel Synchronous regenerative drive Ultra-sonic switching frequency Thermal and overcurrent protection Lithium protection mode
Applications:	Combat robots up to 30lb Differential drive robots Radio controlled tanks, cars and boats Roving cyborg bobcats
Documentation:	Quick start guide.doc Quick start guide.pdf DIP Switch Tour Example R/C vehicle wiring diagram.jpg Motor driver efficiency comparison Sample RPM versus throttle graph
Customer projects:	Walking House Show us yours!

Sabertooth R/C DIP switch tour