**Batterie**

https://hobbyking.com/de\_de/zippy-4000mah-3s1p-30c-hardcase-pack.html

* Kapazität: **4000mAh**
* Spannung: **3S1P / 3CELL / 11.1v**
* Entladung: **30C Constant / 40C Burst**
* Gebührenrate (soll charge rate sein): **3C**
* Gewicht: **342g (einschließlich Draht, Plug & Fall)**
* Abmessungen: **137x47x39mm**
* Balance Stecker: **JST-XH**
* Entladungsstecker: **4mm Rundstecker**

Infos:

1C = C-Koeffizient.

1C = innerhalb 1 Stunde komplett ge- oder entladen  
2C = innerhalb 0.5 Stunde entladen  
Hier: 30C == 1/30 h = 2 min entladen  
bei 4000mAh sind das 120 000mA = **120 A maximaler Entladestrom**und **12 A Ladestrom**

VESC meint aber der Ladestrom müsste kleiner sein, als der Maximale Strom vom Motor, was hier aber nicht der Fall ist.

**Sicherheitshalber den Strom von 120A auf 60A runtersetzen!**

Gleiches bei der charge rate: in 20 min geladen

**Motor**

https://flipsky.net/products/flipsky-electric-skateboard-motor-5065-270kv-1550w

* Max Power: 1550 Watts
* Max Current: 80 Amps
* No-load Current: 1A 10V
* Max Volts: 41.5V
* Lipo: 3S-8S (11.1V-29.6V)
* Max Torque: 4Nm
* Motor Resistance: 64mΩ
* Weight: 0.99 lb / 0.45 kg
* The motor length:65mm
* The motor diameter: 50mm
* SHAFT: Diameter 8mm, 20mm length, 3x3x15mm keyway slot.
* Motor Wire: 160mm silicone 16AWG wire with 4.0mm Gold Bullet Connector Male.
* Wire configuration:
  + Blue（Heat shrinkable film） = A
  + Black （Heat shrinkable film）= B
  + Yellow （Heat shrinkable film）= C
* Brushless Motor
* The number of pole: 14

**Sensor Wire: Standard RC Sensor Wire JST-ZH 6pin 1.5mm pitch**

* Internal PCB with 120 Degree Hall Effect Sensors.
* Motor can be used with or without a sensor. Sensorless operation is most common.
* [VESC Sensor Wires](https://flipsky.net/collections/accessories/products/flipsky-esc-sensor-wires) required to use with VESC.
* Wire configuration:
  + Red = 5v
  + Blue = A
  + Yellow = C
  + Green = B
  + Black = GND

Infos:

**Electrical RPM (ERPM)**

The RPM of the motor multiplied by the amount of polar pairs. Generally, motors used in electric skateboards have 7 polar pairs. Some speed controllers are limited in the amount of ERPM they can support