

QUICRUN
USER MANUAL
Sensorless Brushless Motor
QUICRUN 3652/3660 G2



Thank you for purchasing this HOBBYWING product! Any improper use may cause personal injury and damage to the product and related devices. We strongly recommend reading through this user manual before use and strictly abide by the specified operating procedures. We shall not be liable for any liability arising from the use of this product, including but not limited to reimbursement for incidental or indirect losses. Meanwhile, we do not assume any responsibility caused by unauthorized modification of the product. We have the right to change the product design, appearance, performance and use requirements without notice.

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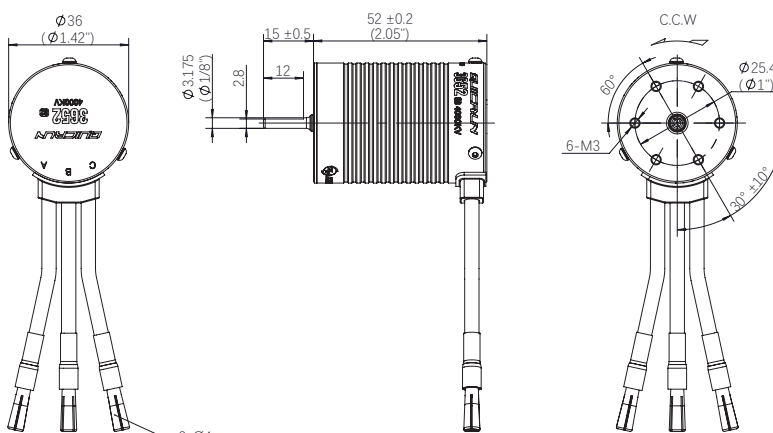
01 Warnings

- Read the manuals of all the items being used in the build. Ensure gearing, setup, and overall install is correct and reasonable.
- All connections, must be made correctly. You may lose control, or run into major issues caused by improper, bad, weak, or poor connections.
- Never apply full throttle if the pinion is not installed. Due to the extremely high RPMs without load, the motor may get damaged.
- Stop usage if the motor exceeds 100°C/212°F. High temperature will damage the motor and cause the rotor to weaken.

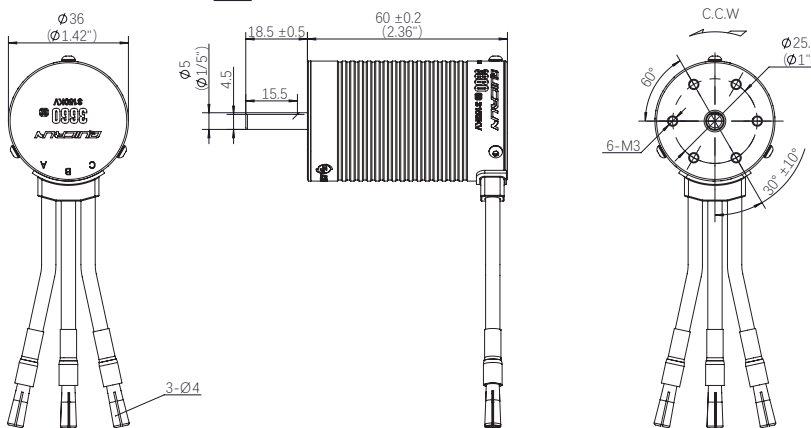
02 Specifications

Model	KV	LiPos	No-load Current	Diameter/Length	Shaft Diameter/Length	Bearing size (mm)	Poles	Weight	Applications
QUICRUN 3652SL 3250KV G2	3250KV	2-3S	4.0A	φ=36mm(1.42") L=52mm(2.05")	φ=3.175mm(0.13") L=15mm(0.59")	Front: D13*D5*T4 Rear: D13*D5*T4	4	223g	1/10 On-road, Buggy, Truck (Light load)
QUICRUN 3652SL 4000KV G2	4000KV	2-3S	5.3A					224g	
QUICRUN 3652SL 5400KV G2	5400KV	2S	6.8A	224g					
QUICRUN 3660SL 3150KV G2	3150KV	2-3S	5.4A	φ=36mm(1.42") L=60mm(2.36")	φ=5mm(0.20") L=18.5mm(0.73")	Front: D16*D5*T5 Rear: D13*D5*T4	4	273g	1/10 Truck, Monster truck
QUICRUN 3660SL 3700KV G2	3700KV	2-3S	6.5A					278g	
QUICRUN 3660SL 4500KV G2	4500KV	2S	6.2A					263g	

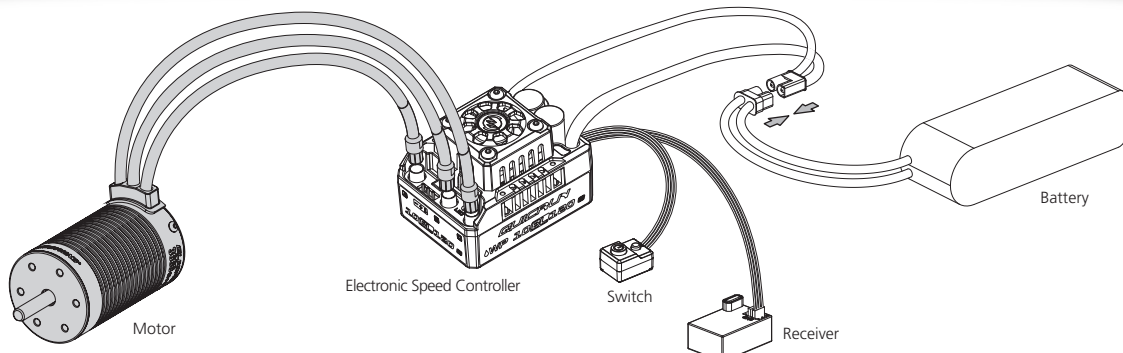
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03 Installation & Connection



1. Installation of the motor

There are 6 motor mounting holes in M3 specification, and the mounting holes are 5.5mm in depth, before installing the motor on the vehicle, please carefully confirm whether the specification of the screws is appropriate according to the thickness of the motor mounting plate to avoid damage to the motor due to too long screws.

2. How to Connect the Motor to an ESC

There is no strict wire sequence requirement for the connection between the motor and the esc, the # A/# B/# C three wires of the motor and esc can be connected at will, if the motor rotation in the opposite direction, you can exchange any two wires.

3. Inspection

Before powering on the esc, please check the motor installation and the order of all connections.

04 Gearing

Reasonable selection of gear ratio is very important. Improper gear ratio may cause damage. You can select the gear ratio according to the following points!

1. The operating temperature of the motor

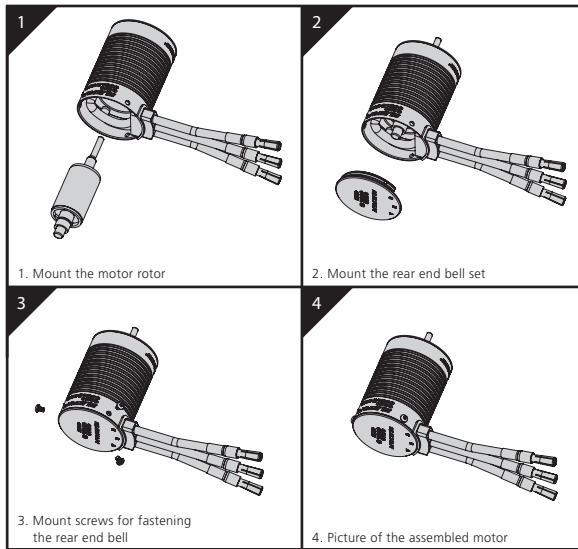
The motor temperature should be lower than 100 degrees Celsius (212 degrees Fahrenheit) in operation. High temperature may cause the magnets to get demagnetized, the coil to melt and short circuit, and the ESC to get damaged. A suitable gearing ratio can effectively prevent the motor from overheating.

2. The principle of selecting gear ratio

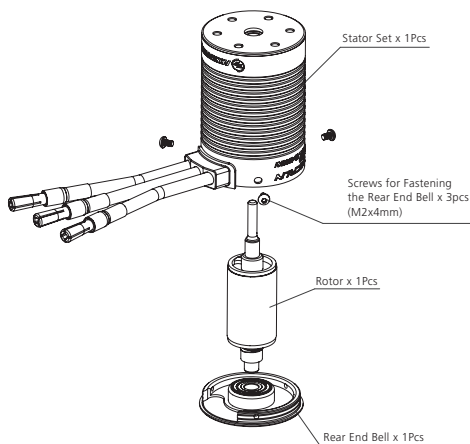
To avoid the possible damage to ESC and motor caused by the overheating, please start with a small pinion/a big FDR and check the motor temperature regularly. If the motor and ESC temperature always stays at a low level during the running, you can change a larger pinion/a lower FDR and also check the motor temperature regularly to ensure that the new gearing is suitable for your vehicle, local weather and track condition. (Note: For the safety of electric devices, please check the ESC and motor temperature regularly.)

05 Assembly and Disassembly

In order to make the motor have longer service life and higher efficiency, we suggest to regularly check the bearing and clean the dirt in the motor. The specific time depends on the using of the motor and the site conditions. When installing, please follow the steps in the following assembly drawing; when disassembling, follow the reverse steps.



Parts List





感谢您购买本产品！无刷动力系统功率强大，错误的使用可能造成人身伤害和设备损坏。在使用设备前，请务必仔细阅读本说明书，并严格遵守规定的操作程序。我们不承担因使用本产品而引起的任何责任，包括但不限于对附带损失或间接损失的赔偿责任；同时，我们不承担因擅自对产品进行修改所引起的任何责任。我们有权在不经通知的情况下变更产品设计、外观、性能及使用要求。

QUICRUN

车用无感无刷电机
使用说明书

QUICRUN 3652/3660 G2

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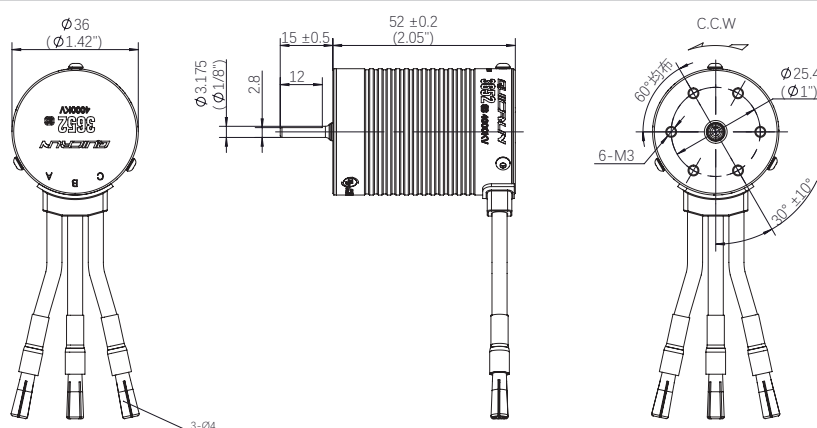
01 注意事项

- 使用此电机前，请认真查看各动力设备以及车架说明书，确保动力搭配合理，避免因错误的动力搭配导致电机超载而损坏。
- 请务必仔细连接好各部件，若连接不良，遥控模型车可能无法正常控制，或出现部件损坏等其他不可预知的情况。
- 请勿在无负载情况下高速运转电机，可能会造成损坏。
- 勿使电机外壳温度超过100摄氏度（212华氏度），高温可能导致转子退磁并最终对电机造成不可恢复的损坏。

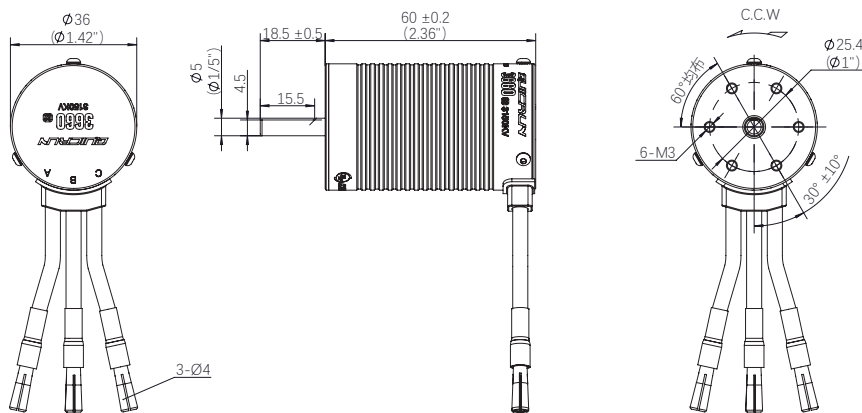
02 规格

型号	KV值	适用锂电节数	空载电流	外径/长度	轴径/外露轴长	轴承规格(mm)	电机极数	重量	主要应用
QUICRUN 3652SL 3250KV G2	3250KV	2-3S	4.0A	φ=36mm(1.42") L=52mm(2.05")	φ=3.175mm(0.13") L=15mm(0.59")	Front: D13"D5"T4 Rear: D13"D5"T4	4	223g	1/10 平路车/越野车/短卡
QUICRUN 3652SL 4000KV G2	4000KV	2-3S	5.3A					224g	
QUICRUN 3652SL 5400KV G2	5400KV	2S	6.8A	224g					
QUICRUN 3660SL 3150KV G2	3150KV	2-3S	5.4A	φ=36mm(1.42") L=60mm(2.36")	φ=5mm(0.20") L=18.5mm(0.73")	Front: D16"D5"T5 Rear: D13"D5"T4	4	273g	1/10短卡/卡车/大脚车
QUICRUN 3660SL 3700KV G2	3700KV	2-3S	6.5A					278g	
QUICRUN 3660SL 4500KV G2	4500KV	2S	6.2A					263g	

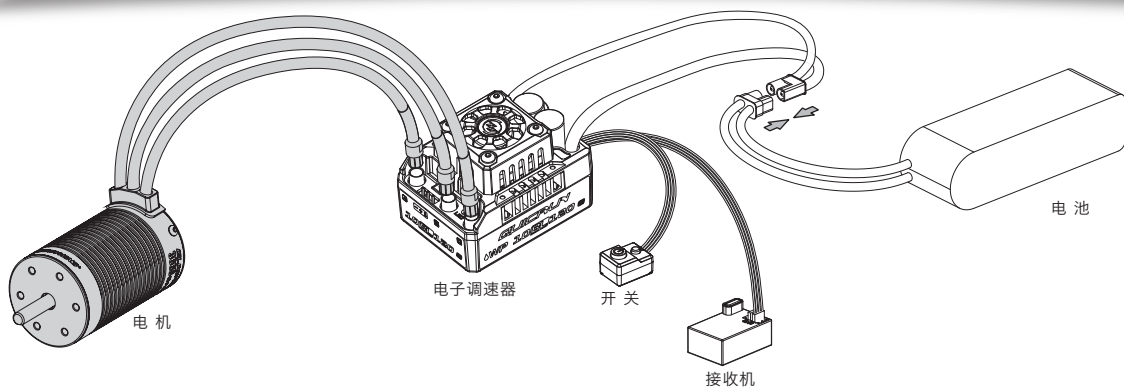
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03 安装和连接



- 1. 安装电机**
该电机安装螺丝规格为6个M3螺丝孔，电机螺丝孔可锁入深度为5.5mm，安装电机到车上前，请根据电机安装座厚度仔细确认所配螺丝规格是否合适，以免过长而损坏电机。
- 2. 电机连接**
电机与电调相连无严格的线序要求，电机与电调的#A/#B/#C三线可随意相接。若出现电机转向相反，任意交换其中两根线即可。
- 3. 检查**
开启电调电源前，请再次仔细检查电机安装可靠性及所有连线的正确性。

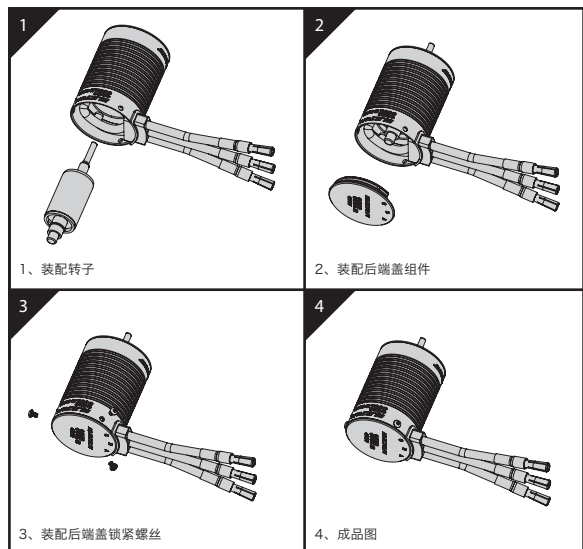
04 齿比选择

齿比的合理选择非常重要，不合适的齿比可能会给您带来重大损失。请遵守以下要点来正确选择齿比！

- 1. 电机的工作温度**
电机在工作时，电机外壳最高温度应低于100摄氏度（212华氏度），温度过高时，将会使电机转子磁性减弱，且线圈可能出现局部烧熔短路现象，产生大电流而损坏电调。选择合适的齿比可以有效防止电机过热。
- 2. 齿比选择原则**
为防止电机过热引发潜在危险而导致电调和电机损坏，请从一个最少齿数的电机小齿进行齿比配置，并随时检查电机温度，这是唯一能确保电机不过热的方法。车子在行驶途中，如果电机及电调温度一直处于稳定的低温范围内，您可以试着使用齿数较多的小齿，并密切监测电机温度，以确定更改后的齿比是否适合您的模型车、当地气候及场地条件（请注意气候及场地条件不是恒定不变的，而是经常会发生变化，所以频繁地监测电调及电机的温度是一项重要的日常操作，它可以确保您的电子设备长期稳定地工作）。

05 装配说明

为了使电机寿命更长、效率更高，建议定期检查轴承并清理电机内部的污垢，具体时间取决于您使用电机的频次和场地环境情况。安装时，请遵循以下装配图的步骤；拆卸时，按相反步骤执行。



零件清单

