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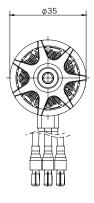
HW-SMR356DLIL00

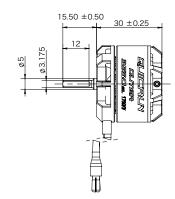
01 Warnings

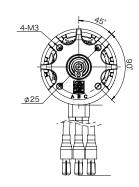
- Read the manuals of all the items being used in the build.Ensure gearing, setup, and overall install is correct and reasonable.
- All connections, must be made correctly. You may loose control, or run into major issues caused by incorrect, bad, weak, or poor connections.
- Never apply full throttle if the pinion is not installed. Due to the extremely high RPMs without load, the motor may get damaged.
- $\bullet \ \, \text{Stop usage if the motor exceeds } 100^{\circ}\text{C/2}12^{\circ}\text{F}, \\ \text{high temperature will damage the motor and cause the rotor to weaken.}$

02 Specifications

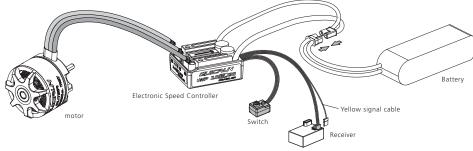
	Outer 3530SL 1700KV	Outer 3530SL 2200KV
KV	1700	2200
LiPo Cells	2-4\$	2-45
No-load Current (A)	4	5
Max. Output Power (W)	430	520
Current @Max. Input Power(A)	34	40
Diameter/Length	35mm (1.38") *30mm (1.18")	35mm (1.38") *30mm (1.18")
Shaft Diameter/Length	3.175mm (0.13") *15.5mm (0.61")	3.175mm (0.13") *15.5mm (0.61")
Poles	14	14
Weight	102g	102g
Applications	1/10、1/12 Crawler	1/10、1/12 Crawler







03 Installation & Connection



1. Installation of the motor

There are 4 motor mounting holes in M3 specification, and the mounting holes are 4mm in depth, before installing the motor on the vehicle, please carefully confirm whether the specifications of the screws are appropriate, as not to damage the motor due to excessive length.

2. How to Connect the Motor to an ESC

There is no specific 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, or set the "Motor Rotation" parameter of the esc..

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!

The operating temperature of the motor

The motor temperature should not exceed 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.)

Resources & Specifications

Visit www.hobbywing.com/en/products/quicrun-outer-3530-sl for more details about HOBBYWING QuicRun Outer 3530SL RC Crawler Motor

