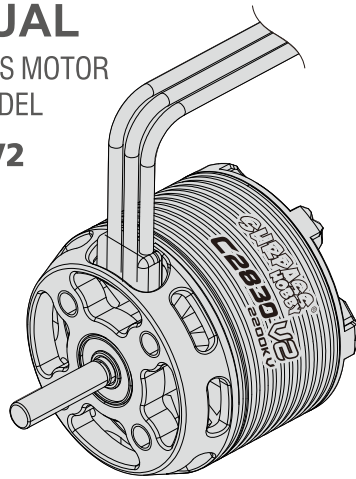




USER MANUAL

OUTRUNNER BRUSHLESS MOTOR FOR AIRCRAFT MODEL

C28 SERIES V2



Thank you for purchasing Surpasshobby product, this is a powerful RC hobby product rather than a toy. It must be operated with care and common sense of safety. Any wrong operation may cause personal injury or damage the product. This product does not allow children to use it without the direct supervision of an adult. Before installation and use, please read and follow the operating procedures specified in this manual. We do not assume any liability arising from the use of this product, including but not limited to compensation for incidental or indirect loss; at the same time, we do not assume any liability arising from unauthorized modifications to the product.

WARNINGS

- Before using, Ensure that the power system is reasonable. Unreasonable power matching will cause the motor to be damaged due to overload.
- Do not over tighten the screws when installing the motor. Be sure to use the appropriate mounting screws.
- Before connecting the motor, Ensure that The insulated parts are well treated, Short circuit will destroy the product.
- Be sure to connect the components correctly. Wrongly connected may not work properly, or the components may be damaged or other unpredictable conditions.
- Avoid the motor operating temperature exceeding 100°C (212°F). High temperature may cause the rotor to demagnetize and damage motor
- Do not touch the motor after use to avoid overheating and scalding. Wait for the motor to cool down completely before using it.

FEATURES

- 14 Pole Hi-torque rotor design, stable output power.
- Fits all fixed wing aircraft model.
- CNC Machined 6061 T6 aluminum front and rear cover.

- Precision balanced rotor, smoothness for best reliability and maximum RPM.
- High Purity Copper Windings Maximizes Efficiency.
- Precision Engineered for Maximum Energy Conversion.

INSTALLATION AND CONNECTION

1. Install the motor

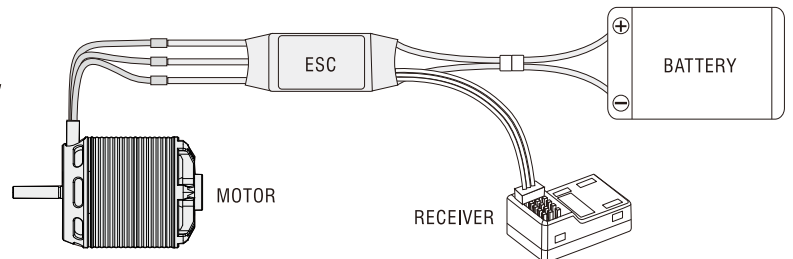
The motor mounting screws are M2.5(C2822)/M3(C2826-C2838) screw holes.

2. Motor connection

There is no polarity on the #A/#B/#C three ESC-to-motor wires, so do not worry about how you connect them initially. You may find it necessary to swap two wires if the motor runs in reverse.

3. Inspection

Before turning on the power of the remote control, please Ensure double check the correctness of the motor connection and the reliability of the installation.

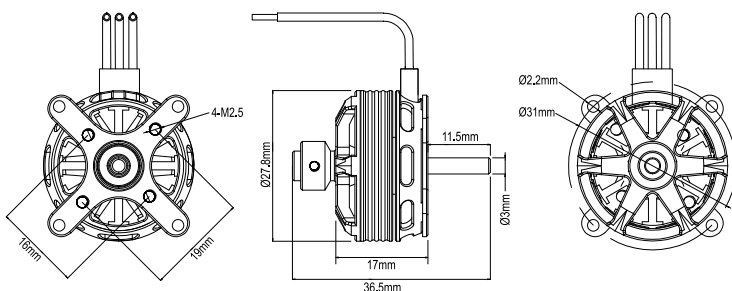


SPECIFICATIONS

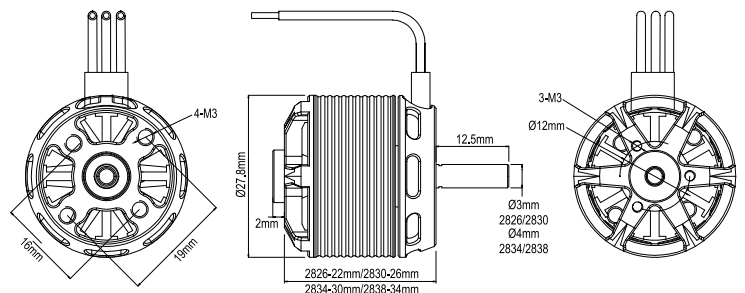
Model	Item Number	KV (RPM/Volt)	MAX Watts (W)	Voltage Range(V)	Max Current (A)	Rotor Poles	No load Current(A)	Resistance (Ω)	Motor Size (mm)	Stator Size (mm)	Weight (g)	Propeller (Inch)
C2822-V2	SP-228220-01	1400	160	7~15	13	14	0.4	0.307	Ø28x20	Ø22 x 04	30	7.5 x 3.5/8 x 4/9 x 5
C2822-V2		1200	140	7~15	11	14	0.3	0.368	Ø28x20	Ø22 x 04	30	8 x 5/8 x 6/7 x 5
C2822-V2		1300	150	7~15	12	14	0.4	0.335	Ø28x20	Ø22 x 04	30	7 x 5/8 x 5/8 x 6
C2822-V2		2300	180	7~15	18	14	0.5	0.125	Ø28x20	Ø22 x 04	30	6 x 3/5 x 3
C2826-V2	SP-228260-01	1900	250	7~12	27	14	1.2	0.063	Ø28x24	Ø22 x 08	45	8 x 3.8/8 x 4/7 x 5
C2826-V2		1350	240	7~12	24	14	0.8	0.097	Ø28x24	Ø22 x 08	45	8 x 3.8/7 x 4
C2826-V2		1200	230	7~12	22	14	0.8	0.135	Ø28x24	Ø22 x 08	45	7 x 5/8 x 4/8 x 5
C2826-V2		1000	220	7~12	20	14	0.7	0.256	Ø28x24	Ø22 x 08	45	8 x 5/8 x 7/9 x 4.7
C2830-V2	SP-228300-01	2200	340	7~12	28	14	1.4	0.035	Ø28x28	Ø22 x 12	57	9 x 6/10 x 5/10 x 6
C2830-V2		1300	300	7~12	25	14	1.2	0.085	Ø28x28	Ø22 x 12	57	9 x 6/10 x 5/10 x 6
C2830-V2		1000	260	7~15	21	14	0.9	0.152	Ø28x28	Ø22 x 12	57	9 x 4.5/10 x 6/10 x 5
C2830-V2		850	240	7~15	19	14	0.6	0.189	Ø28x28	Ø22 x 12	57	11 x 5.5/9 x 6/10 x 4
C2834-V2	SP-228340-01	1120	380	7~15	26	14	1.2	0.068	Ø28x32	Ø22 x 16	67	9 x 6/10 x 4/11 x 5.5
C2834-V2		880	340	7~18	22	14	0.8	0.108	Ø28x32	Ø22 x 16	67	11 x 8.5/10 x 7/12 x 6
C2834-V2		750	300	7~18	19	14	0.6	0.152	Ø28x32	Ø22 x 16	67	11 x 8.5/11 x 10/12 x 6
C2838-V2	SP-228380-02	1200	420	7~16	28	14	0.9	0.045	Ø27.8x34	Ø22x20	74.5	9 x 6/10 x 4/10 x 6
C2838-V2		1000	400	7~18	25	14	0.7	0.075	Ø27.8x34	Ø22x20	74.5	11 x 5.5/11 x 8.5/10 x 7
C2838-V2		800	380	7~18	23	14	0.5	0.115	Ø27.8x34	Ø22x20	74.5	10 x 5/11 x 5/11 x 8.5
C2838-V2		600	360	7~20	20	14	0.4	0.162	Ø27.8x34	Ø22x20	74.5	10 x 7/11 x 8.5/12 x 5



C2822



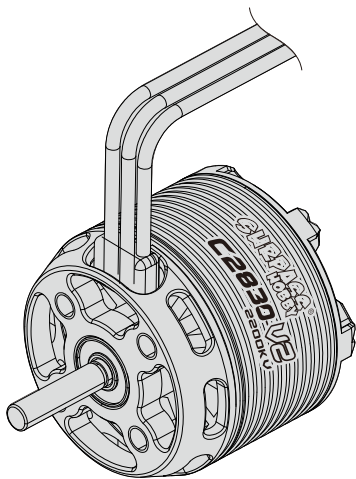
C2826/C2830/C2834/2838





使用说明书

固定翼 外转无刷电机 C28 SERIES V2



感谢您购买本产品，这是一个动力模型产品而不是玩具。它必须谨慎操作和具备安全常识，任何错误操作可能会导致人身伤害或损坏产品。本产品不允许儿童在没有成人直接监督的情况下使用。在安装和使用前，请务必阅读并遵守本手册规定的操作程序。我们不承担因不当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。

注意事项

- 使用此电机前，请确保动力搭配合理，不合理的动力搭配会导致电机超载而损坏。
- 电机安装时螺丝不要过紧，务必使用尺寸合适的电机安装螺丝。
- 连接电机前，请确保需要绝缘的部位处理良好，短路会毁坏产品。
- 请务必正确连接好各部件，错误连接遥控模型可能无法正常工作，或出现部件损坏和其他不可预知的情况。
- 避免电机工作温度超过130°C (266°F)，高温可能导致转子退磁并对电机造成损坏。
- 使用后切勿触摸电机，以免过热烫伤，待电机完全冷却后再使用。

产品特点

- 14极转子设计，具有强大扭力及稳定的输出功率。
- 适用于所有固定翼飞机型号。
- 数控加工6061 T6铝材前、后盖。

- 精密平衡转子，极佳平滑度和可靠性。
- 高纯度铜绕组最大限度地提高效率。
- 精密工程最大的能量转换。

安装和连接

1、安装电机

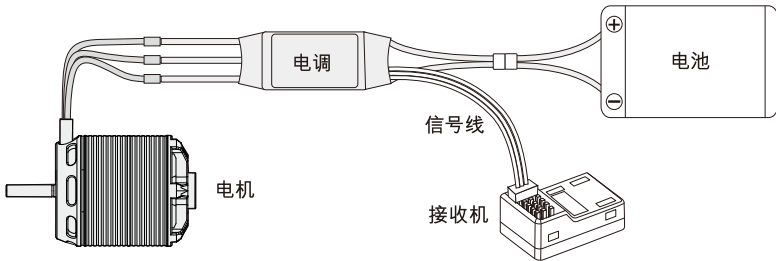
该电机安装螺丝孔径为M2.5(C2822)或M3(C2826-C2838)螺丝，具体安装情况可根据模型固定架而定。

2、电机连接

电机与电调连接没有严格的线序要求，电机的#A/#B/#C可以与电调的三线随意对接，若出现转向相反，任意交换两条电机线即可。

3、检查

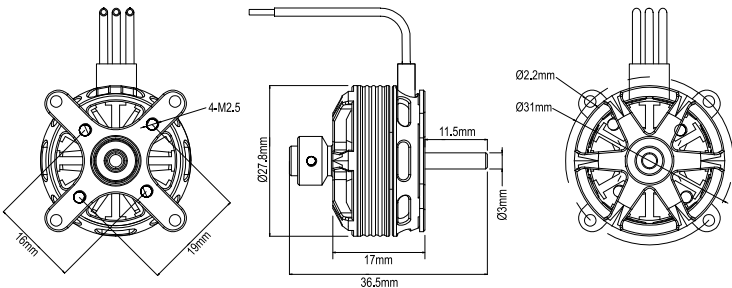
开启遥控车电源前，请务必再次仔细检查动力系统连接的正确性及安装的可靠性。



产品参数

产品型号	产品编码	KV值 (空载)	最大功率 (W)	电压范围 (V)	最大电流 (A)	电机 极数	空载电流 (A)	内阻 (Ω)	电机尺寸 (mm)	定子尺寸 (mm)	净重 (g)	螺旋桨 (英寸)
C2822-V2	SP-228220-01	1400	160	7~15	13	14	0.4	0.307	Ø28x20	Ø22x04	30	7.5x3.5/8x4/9x5
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C2826-V2		1350	240	7~12	24	14	0.8	0.097	Ø28x24	Ø22x08	45	8x3.8/7x4
C2826-V2		1200	230	7~12	22	14	0.8	0.135	Ø28x24	Ø22x08	45	7x5/8x4/8x5
C2826-V2		1000	220	7~12	20	14	0.7	0.256	Ø28x24	Ø22x08	45	8x5/8x7/9x4.7
C2830-V2	SP-228300-01	2200	340	7~12	28	14	1.4	0.035	Ø28x28	Ø22x12	57	9x6/10x5/10x6
C2830-V2		1300	300	7~12	25	14	1.2	0.085	Ø28x28	Ø22x12	57	9x6/10x5/10x6
C2830-V2		1000	260	7~15	21	14	0.9	0.152	Ø28x28	Ø22x12	57	9x4.5/10x6/10x5
C2830-V2		850	240	7~15	19	14	0.6	0.189	Ø28x28	Ø22x12	57	11x5.5/9x6/10x4
C2834-V2	SP-228340-01	1120	380	7~15	26	14	1.2	0.068	Ø28x32	Ø22x16	67	9x6/10x4/11x5.5
C2834-V2		880	340	7~18	22	14	0.8	0.108	Ø28x32	Ø22x16	67	11x5.5/10x7/12x6
C2834-V2		750	300	7~18	19	14	0.6	0.152	Ø28x32	Ø22x16	67	11x8.5/11x10/12x6
C2838-V2	SP-228380-02	1200	420	7~16	28	14	0.9	0.045	Ø27.8x34	Ø22x20	74.5	9x6/10x4/10x6
C2838-V2		1000	400	7~18	25	14	0.7	0.075	Ø27.8x34	Ø22x20	74.5	11x5.5/11x8.5/10x7
C2838-V2		800	380	7~18	23	14	0.5	0.115	Ø27.8x34	Ø22x20	74.5	10x5/11x5/11x8.5
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C2822



C2826/C2830/C2834/2838

