General AEG Motor FAQs

1. Compatibility with Other ETUs

Q: Does the Solink motor have limitations with other brands' ETUs, particularly regarding active braking?
A: Our brushless motors are fully compatible with major ETUs on the market (except ETUs using magnetic switches), including GATE Titan, Aster, T238, and Leviathan. Unlike some other motor brands, our motors have no restrictions on features like active braking or pre-cocking. They are designed to handle these functions seamlessly, providing full flexibility for your setup.

2. Input Voltage Range

Q: What is the motor's input voltage range?
A: The motor operates within 7.4V–16.8V. For example, with a 7.4V LiPo, the motor's RPM decreases to about two-thirds of its 28,000 RPM potential. However, the torque remains stable, ensuring reliable performance without significant strain.

3. Efficiency and Performance

Q: How does the motor perform in terms of efficiency, power draw, and heat compared to brushed motors?
A: Solink brushless motors are 10% more efficient than our high-quality brushed motors, which are already 5% more efficient than the general market average. Key performance metrics include:

- Efficiency: 90%-75%, depending on gear ratio and spring power. For example, efficiency is 85% under standard use (1.5J power, rate of fire <50).
- Advantages: Lower power consumption, less heat generation, faster trigger response, and lighter rotor design.

4. Brushless vs. Brushed Motors

Q: What are the advantages of brushless motors over brushed motors?
A: See below:

- Efficiency: Brushless motors reduce energy losses with ESC control and eliminate frictional losses from brushes.
- Durability: With no brushes, maintenance is minimized, and longevity increases.

- Response Speed: Brushless motors provide faster acceleration and precision, ideal for rapid firing and high-speed applications.

5.Lite Plus Brushless motor VS Advanced Plus Brushless motor VS Professional Brushless motor specification comparison

Feature	Lite Plus Brushless motor	Advanced Plus Brushless motor	Professional Brushless motor	V5 Brushless motor
Motor body material	Aluminium			
Motor gear	D Type			
Input voltage	7.4-16.8V			
Axis	Long/Short			
Emergency Stop	✅			
Overheat protection	✅			
ETU Active braking compatible	✅			
Stepless speed regulation	No	No, only high-low (20% less speed) button switch		✅(With extra controller)
Anti Reverse	No	✅	No	✅
Max Spring	M160	M160	M190	M190
RPM	28K/31K/35K	28K/31K/35K	34K/39K	1K–46K (Adjustable)
No load under 11.1V DC				
Speed	28100RPM/31300RPM/36100RPM	28100RPM/31300RPM/36100RPM	34100RPM/38800RPM	46300RPM
Current	1.9A/2.2A/2.5A	1.9A/2.2A/2.5A	2.0A/2.5A	3.3A
Load under 11.1V DC				
Maximum Efficiency	73.2%/73.1%/72.8%	73.2%/73.1%/72.8%	74.7%/73.5%	76.10%
Torque at maximum efficiency	**470G.CM/493G.CM/489G.CM**🔥	**470G.CM/493G.CM/489G.CM**🔥	470G.CM/498G.CM	587G.CM
Maximum Output	44.7%/44.9%/45.2%	44.7%/44.9%/45.2%	47.1%/44.8%	47.30%
Torque at maximum Output	**2103G.CM/2245G.CM/2246G.CM**🔥	**2103G.CM/2245G.CM/2246G.CM**🔥	2116G.CM/2492G.CM	2632G.CM

6.What's the advantage of a professional brushless motor over an advanced motor.

A: Much better Torque(Torque specification for both professional brushless motor and advanced motor can be seen at the above 6th Q&A question) and less heat dissipation.

7.Can Solink V5 brushless motor be distinguished by Gate Titan and Aster mosfet for programming?

A:Actually for programming not, Gate Titan and Aster mosfet can only distinguish

Gate G5 brushless motor and do the programming due to Gate has encrypted G5 brushless motor specifically.

But except for that programming function , our V5 brushless motor is compatible with Gate Titan and Aster mosfet .