



V8017 IPE V1.0 Brushless DC Motor Drone

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: V8017 IPE V1.0 100KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: V8017 IPE W1.0
- Motor Size: D:88.5 X46.2 Mm
- Propeller Mounting Holes: D:20 M3x4 D:23 M4x4
- Shaft Diameter: IN: 12 Mm
- Bearing: 6901ZZ*2
- Cable Length: 1000 Mm 14# Awg(Black) Silicone
- Rotor Balance: <25 Mg
- Motor Balance: ≤10 Mg
- Motor Mounting Holes: D:40 M4x4
- Disruptive Test: 500 V
- Highlight: Drone Brushless DC Motor,
V8017 Brushless DC Motor Drone



More Images



Product Description

V8017 IPE V1.0 Brushless DC Motor Drone

V8107 motor is the most classic product among VTOL UAV motors. MAD V8017 IPE is one of the most efficient motors among them, and the most widely used motors for UAV of high-end aerial photography, exploration, archaeology, remote sensing surveying, mapping etc. Endurance flight time varies from 30-120min. Designed for harsh conditions Oversized durable bearings for extended motor life.

| | | | |
|-----------------|-------------------|------------------------|-------------------------|
| RPM/V | 170KV | Nominal Voltage | 12S lipo battery |
| No Load Current | 3.9A/ 30V | Internal resistance | 17.5mΩ |
| Motor Weight | 680 g | Product Boxed Weight | 1008g(150 x150 x 65 mm) |
| Maximum Current | 132.4 A | Maximum Power | 6325 W |
| Maximum thrust | 21.4 kg | Maximum Torque | 7.33 Nm |
| Recommended EsC | AMPX 200A (5-14S) | Recommended Propellers | 27X8.1 28X8.4 |

V8017

ENERGY EFFICIENT 170KV
INDUSTRY PROFESSIONAL EDITION

6.0~9.0 kgf

RECOMMENDED
HOVER THRUSTOPTIMIZED
WEIGHT 680g

21.4 kgf

MAXIMUM
THRUSTMAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONS

EFFICIENCY >79%



MAD V8017 IPE 170KV FLUXER PRO 28x8.4 MATT AMPX 200A (5-14S)

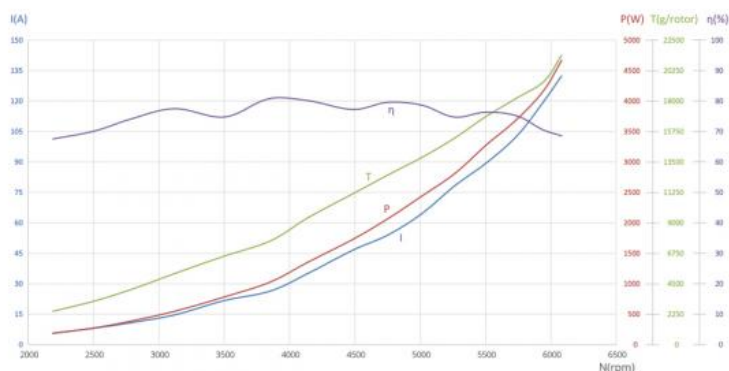
12S

MAX
118°C

Analytical Graph of Motor Operation

I - Current, P - Input Power, η - Electrical Efficiency, T - Thrust, N - Rotational Speed

The data above was measured with an input voltage of 48 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.



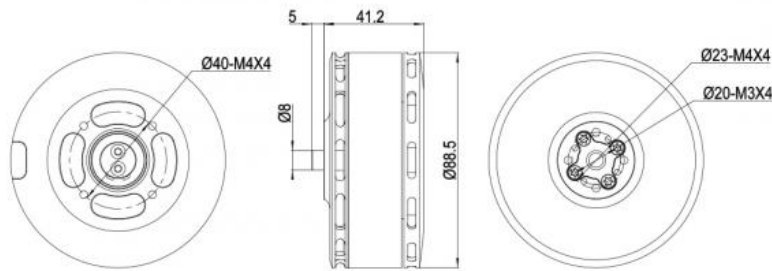
Motor Data

| | | | |
|------------------------------|---|-----------------------|---------------------------------|
| Motor Model | MAD V8017 IPE V1.0 | Number of pole pairs | 14 |
| Stator | TAIWAN / Anticorrosive | Varnished wire Degree | 180°C |
| Motor Size | D:88.5 × 46.2 mm | Magnet Degree | 150°C |
| Degree of Protection | IP35 | Cable Length | 1000 mm 14# Awg(Black) silicone |
| Centrifugal Heat Dissipation | YES | Rotor Balance | ≤5 mg |
| Propeller Mounting Holes | D:20 M3×8, D:23 M4×4 | Motor Balance | ≤10 mg |
| Shaft Diameter | IN: 12 mm | Motor Mounting Holes | D:40 M4×4 |
| Bearing | EZO 6901ZZ*2 | Disruptive test | 500 V |
| Additional Accessories | M6 Propeller Plate *1, Conversion *1, 4.0mm Bullet Connector*3, Heat Shrinkable Tube*3, M4*12mm *4 Motor Screws, M3*14mm *4 Prop Adapter Fixing Screws, Sticker*1 | | |

Specifications

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|-----------------|------------|----------------------|---------------------------|
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| Maximum Current | 132.4 A | Maximum Power | 6325 W |
| Maximum Thrust | 21.4 kg | Maximum Torque | 7.33 Nm |

| RECOMMENDED ESC | ESC | RECOMMENDED PROPELLERS | PROPELLERS |
|---------------------|---|------------------------------|---------------|
| Recommended ESC | MAD AMPX 200A (5-14S) | Recommended Propellers | 27X8.1 28X8.4 |
| UAV take-off weight | 12S-28"/ 32kg-Quadcopter 48kg-Hexacopter 64kg-Octocopter | Single rotor take-off weight | 6kg ~ 9kg |



| MAD V8017 IPE 170KV FLUXER PRO 27x8.1 MATT AMPX 200A (5-14S) | | | | | | | | 12S | MAX 101°C |
|--|-------------|-------------|-----------------|------------------|--------------|------|-------------|----------------|-------------------|
| Throttle [%] | Voltage [V] | Current [A] | Input Power [W] | Output Power [W] | Torque [N·m] | RPM | Thrust [gf] | Efficiency [%] | Efficiency [gf/W] |
| 30 | 48.26 | 5.64 | 272.2 | 179.5 | 0.778 | 2202 | 2406 | 66.01 | 8.8 |
| 35 | 48.22 | 8 | 385.6 | 272.2 | 1.037 | 2506 | 3151 | 70.64 | 8.2 |
| 40 | 48.24 | 10.99 | 530.2 | 386.4 | 1.322 | 2790 | 3966 | 72.87 | 7.5 |
| 45 | 48.21 | 14.81 | 713.8 | 547.8 | 1.672 | 3129 | 4998 | 76.78 | 7.0 |
| 50 | 48.19 | 19.97 | 962.4 | 786.9 | 2.143 | 3506 | 6497 | 81.8 | 6.8 |
| 55 | 48.17 | 27.12 | 1306.4 | 1053.6 | 2.622 | 3838 | 7917 | 80.64 | 6.1 |
| 60 | 48.19 | 35.78 | 1724.2 | 1304.4 | 2.999 | 4154 | 9055 | 75.66 | 5.3 |
| 65 | 48.14 | 43.38 | 2088.1 | 1687.1 | 3.580 | 4501 | 10783 | 80.78 | 5.2 |
| 70 | 48.1 | 51.91 | 2496.6 | 1997.4 | 3.999 | 4770 | 12086 | 80.01 | 4.8 |
| 75 | 48.09 | 65.48 | 3149.0 | 2384.2 | 4.528 | 5028 | 13483 | 75.73 | 4.3 |
| 80 | 48.04 | 74.37 | 3572.8 | 2789.3 | 5.060 | 5264 | 15086 | 78.04 | 4.2 |
| 85 | 47.96 | 84.2 | 4038.0 | 3215.5 | 5.559 | 5523 | 16462 | 79.6 | 4.1 |
| 90 | 47.95 | 102.11 | 4896.0 | 3653.1 | 6.062 | 5755 | 17752 | 74.58 | 3.6 |
| 95 | 47.91 | 115.62 | 5731.1 | 4157.5 | 6.663 | 5959 | 19598 | 72.52 | 3.4 |
| 100 | 47.9 | 127.69 | 6116.4 | 4602.4 | 7.131 | 6163 | 20832 | 67.28 | 3.0 |

| MAD V8017 IPE 170KV FLUXER PRO 28x8.4 MATT AMPX 200A (5-14S) | | | | | | | | 12S | MAX 118°C |
|--|-------------|-------------|-----------------|------------------|--------------|------|-------------|----------------|-------------------|
| Throttle [%] | Voltage [V] | Current [A] | Input Power [W] | Output Power [W] | Torque [N·m] | RPM | Thrust [gf] | Efficiency [%] | Efficiency [gf/W] |
| 30 | 48.25 | 5.7 | 275.2 | 185.5 | 0.809 | 2190 | 2464 | 67.54 | 9.0 |
| 35 | 48.24 | 8.09 | 390.5 | 273.6 | 1.044 | 2502 | 3208 | 70.08 | 8.2 |
| 40 | 48.24 | 10.83 | 522.6 | 387.1 | 1.326 | 2788 | 4073 | 74.11 | 7.8 |
| 45 | 48.22 | 14.65 | 706.6 | 547.0 | 1.675 | 3119 | 5247 | 77.47 | 7.4 |
| 50 | 48.22 | 21.72 | 1047.1 | 782.7 | 2.135 | 3500 | 6540 | 74.75 | 6.2 |
| 55 | 48.19 | 26.4 | 1272.2 | 1028.1 | 2.549 | 3852 | 7658 | 80.83 | 6.0 |
| 60 | 48.14 | 35.13 | 1691.0 | 1354.8 | 3.124 | 4141 | 9380 | 80.11 | 5.5 |
| 65 | 48.13 | 46.8 | 2252.4 | 1738.2 | 3.695 | 4492 | 11185 | 77.23 | 5.0 |
| 70 | 48.11 | 54.07 | 2601.2 | 2070.7 | 4.159 | 4754 | 12542 | 79.58 | 4.8 |
| 75 | 48.07 | 64.51 | 3101.4 | 2438.0 | 4.646 | 5011 | 13825 | 78.64 | 4.5 |
| 80 | 48.06 | 78.28 | 3761.9 | 2809.7 | 5.097 | 5264 | 15265 | 74.71 | 4.1 |
| 85 | 48 | 89.44 | 4292.6 | 3277.8 | 5.687 | 5504 | 16865 | 76.34 | 3.9 |
| 90 | 47.92 | 102.66 | 4919.3 | 3696.0 | 6.152 | 5737 | 18209 | 75.12 | 3.7 |
| 95 | 47.88 | 119.74 | 5924.9 | 4172.5 | 6.704 | 5944 | 19428 | 70.44 | 3.3 |
| 100 | 47.79 | 132.35 | 6325.0 | 4667.0 | 7.329 | 6081 | 21360 | 68.58 | 3.1 |

The above data are the theoretical values when the input voltage is 48V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 132A is non-working zone, 47-132A is short-term (about 10-30s) working zone, and below 47A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

Our Services

1. We provide 1 Year Warranty. Buy with confidence.
2. If you are not satisfied when you receive your item, please return it within 14 days for a replacement or money back. Please contact me before you return it.
3. If item is defective in 3 months, We will send you a replacement without extra charger, or offer refund after we receive the defective item.
4. If item is defective after 3 months, you can still send it back to us. We will send you a new one after receiving the defective item. But you have to pay the extra shipping fee.



FAQ

Q1: Do you support OEM/ODM?

A1: Yes. We can print your logo on the product.

Q2: About samples.

A2: Under normal circumstances, samples will be ready within 7 days, and 10-20 days for OEM/ODM orders. Sample fee and shipping will be charged.

Q3: What is the delivery time?

A3: For regular orders, we can ship within 15 days, for OEM/ODM, we can ship within 25-45 days (depending on the quantity). In the event of delays, we will notify you in advance of the status and resolution.

Q4: What is the minimum order quantity?

A4: There is no MOQ for wholesale (1 piece accepted), including OEM/ODM.

Q5: What are your payment terms?

A5: L/C.TT100%.

Q6: Can you reduce the shipping cost?

A6: When calculating the shipping cost for you, we always choose the cheapest and safest express. Although we have partnerships with shipping companies, we can't keep costs down because it's not us who get paid. If you think it's expensive for you. You can always make your own choice.

Q7: Return policy.

A7: If you want to replace the received item, you must contact us within 7 days after receiving the item. Returned items should be in their original condition and you should pay for additional shipping.

| | | | |
|-----------------|-------------------------------------|------------------------|----------|
| RPMNV | 9 KV | Nominal Voltage | 354~400V |
| No Load Current | 1.44A 1 40V | Internal resistance | 40.5mΩ |
| Motor Weight | 12.7 kg | Product Boxed Weight | 14 kg |
| Maximum Current | 150.8 A | Maximum Power | 55.6 KW |
| Maximum thrust | 200.1 kg | Maximum Torque | 178.9 Nm |
| Recommended EsC | SineSic Pro 160A 30KW(150V~435V) | Recommended Propellers | 72x31 |



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