

Specification

| | | | |
|-----------------------|---|--------------------------------|---|
| Motor Size | $\varnothing 55.6 \times 33.9 \text{mm}$ | Copper Wire | 220°C high temperature resistance: Level C |
| Stator | Imported silicon steel sheet; Anti-rust treatment; 150°C high temperature-resisting coatings | Coil Insulation Test | 500V |
| Configuration | 24N28P | Centrifugal Cooling Design | YES |
| Shaft Diameter | IN : 6mm , OUT : 4mm | Rotor Dynamic Balance Standard | $\leq 5 \text{Mg}$ |
| Bearing | Imported 696ZZ | Motor Dynamic Balance Standard | $\leq 10 \text{Mg}$ |
| Magnet Level | 180°C high temperature resistance | IP | IP45 |
| Lead Cable | 16AWG*150mm | | |
| KV | 240 | Rated Voltage (Lipo) | 6-12S |
| Idle Current (18V) | 0.9A | ESC Recommendation | AIR 40A |
| Peak Current (180s) | 25A | Propeller Recommendation | 14-15 / 20-22" |
| Max.Power (180s) | 1200W | Motor Weight (incl. Cable) | 170g |
| Internal Resistance | 85m Ω | Package Weight | 350g |
| KV | 300 | Rated Voltage (Lipo) | 6-8S |

| | | | |
|-----------------------|-------|----------------------------|---------|
| Idle Current (15V) | 1.1A | ESC Recommendation | AIR 40A |
| Peak Current (180s) | 40A | Propeller Recommendation | 20-22" |
| Max.Power (180s) | 1000W | Motor Weight (incl. Cable) | 170g |
| Internal Resistance | 63mΩ | Package Weight | 350g |
| KV | 360 | Rated Voltage (Lipo) | 6S |
| Idle Current (15V) | 1.4A | ESC Recommendation | AIR 40A |
| Peak Current (180s) | 40A | Propeller Recommendation | 17-18" |
| Max.Power (180s) | 1000W | Motor Weight (incl. Cable) | 175g |
| Internal Resistance | 45mΩ | Package Weight | 350g |

Test Data

| Type | Propeller | Throttle | Voltage (V) | Thrust (g) | Torque (N*m) | Current (A) | RPM | Power (W) | Efficiency (g/W) | Operating Temperature (°C) |
|-----------------|---------------------|----------|-------------|------------|--------------|-------------|------|-----------|------------------|--|
| MN501S KV240 | LIGPOWER P14*4.8 | 40% | 48.50 | 975 | 0.17 | 2.90 | 5011 | 141 | 6.93 | 57.5 (Ambient Temperature: 9.2°C) |
| | | 42% | 48.49 | 1026 | 0.18 | 3.12 | 5182 | 151 | 6.79 | |
| | | 44% | 48.50 | 1084 | 0.19 | 3.36 | 5337 | 163 | 6.65 | |
| | | 46% | 48.49 | 1142 | 0.20 | 3.62 | 5508 | 176 | 6.50 | |
| | | 48% | 48.49 | 1215 | 0.21 | 3.90 | 5667 | 189 | 6.42 | |
| | | 50% | 48.53 | 1282 | 0.23 | 4.20 | 5834 | 204 | 6.30 | |
| | | 52% | 48.53 | 1386 | 0.25 | 4.59 | 6035 | 223 | 6.22 | |
| | | 54% | 48.53 | 1487 | 0.26 | 4.97 | 6213 | 241 | 6.16 | |
| | | 56% | 48.52 | 1567 | 0.27 | 5.33 | 6383 | 259 | 6.06 | |
| | | 58% | 48.53 | 1646 | 0.27 | 5.65 | 6413 | 274 | 6.00 | |
| | | 60% | 48.52 | 1730 | 0.30 | 5.99 | 6655 | 290 | 5.96 | |
| | | 62% | 48.52 | 1809 | 0.31 | 6.35 | 6829 | 308 | 5.87 | |
| | | 64% | 48.52 | 1905 | 0.32 | 6.79 | 6993 | 329 | 5.78 | |
| | | 66% | 48.52 | 1980 | 0.34 | 7.25 | 7161 | 352 | 5.63 | |
| | | 68% | 48.56 | 2103 | 0.35 | 7.78 | 7340 | 378 | 5.57 | |
| | | 70% | 48.55 | 2204 | 0.37 | 8.35 | 7534 | 405 | 5.44 | |
| | | 75% | 48.55 | 2481 | 0.42 | 9.72 | 7947 | 472 | 5.26 | |
| | | 80% | 48.54 | 2787 | 0.47 | 11.35 | 8376 | 551 | 5.06 | |
| | | 90% | 48.53 | 3314 | 0.57 | 14.74 | 9161 | 715 | 4.63 | |
| 100% | 48.52 | 3891 | 0.68 | 18.52 | 9870 | 899 | 4.33 | | | |
| | | 40% | 48.59 | 1166 | 0.23 | 3.57 | 4887 | 174 | 6.72 | |
| | | 42% | 48.58 | 1252 | 0.24 | 3.89 | 5067 | 189 | 6.64 | |
| | | 44% | 48.58 | 1319 | 0.26 | 4.17 | 5198 | 203 | 6.51 | |
| | | 46% | 48.58 | 1412 | 0.27 | 4.53 | 5365 | 220 | 6.42 | |
| | | 48% | 48.58 | 1506 | 0.29 | 4.90 | 5536 | 238 | 6.32 | |
| | | 50% | 48.58 | 1605 | 0.31 | 5.30 | 5684 | 258 | 6.23 | |
| | | 52% | 48.58 | 1710 | 0.34 | 5.69 | 5855 | 277 | 6.18 | |

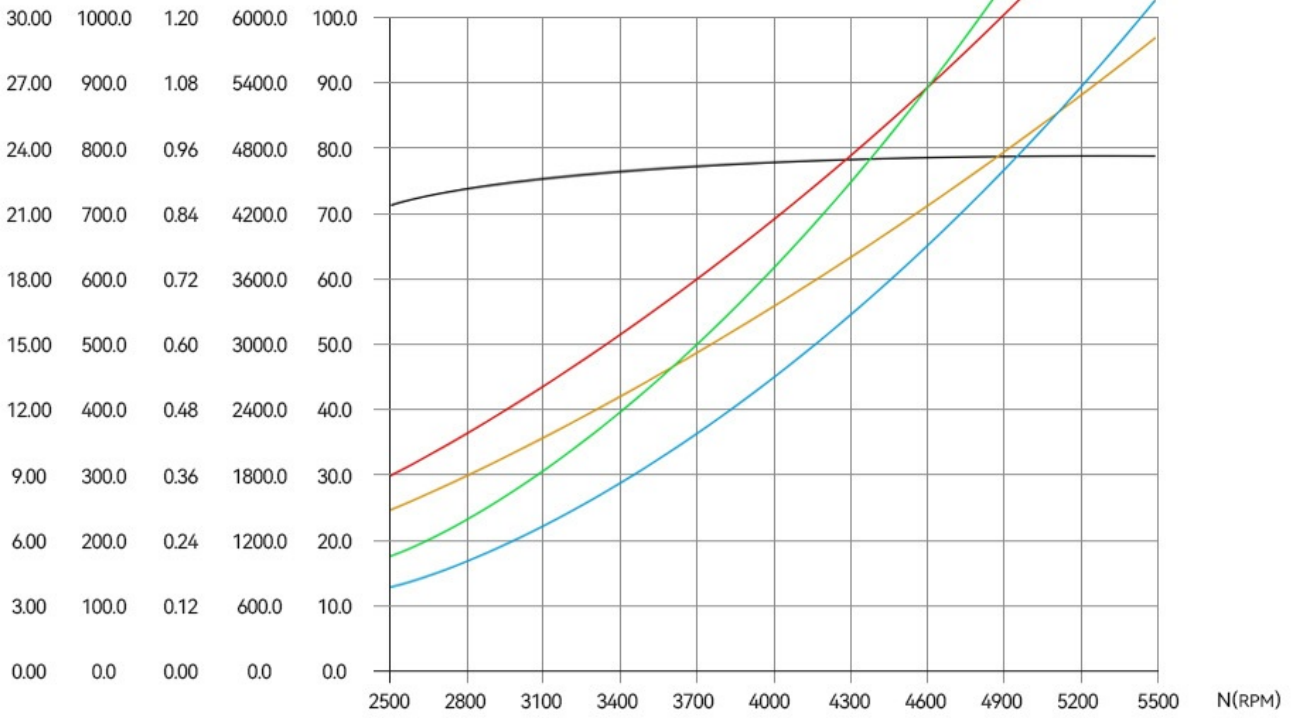
| | | | | | | | | | | |
|-----------------|---------------------|------|-------|-------|------|-------|------|-----|-------|--|
| MN501S KV240 | LIGPOWER P15*5 | 54% | 48.57 | 1842 | 0.32 | 6.26 | 6057 | 304 | 6.05 | 78 (Ambient Temperature: 9.2°C) |
| | | 56% | 48.57 | 1949 | 0.34 | 6.78 | 6242 | 329 | 5.92 | |
| | | 58% | 48.57 | 2094 | 0.36 | 7.41 | 6411 | 360 | 5.81 | |
| | | 60% | 48.57 | 2176 | 0.36 | 7.87 | 6513 | 382 | 5.70 | |
| | | 62% | 48.57 | 2199 | 0.38 | 8.02 | 6632 | 389 | 5.65 | |
| | | 64% | 48.57 | 2295 | 0.40 | 8.52 | 6804 | 414 | 5.55 | |
| | | 66% | 48.56 | 2421 | 0.42 | 9.11 | 6960 | 442 | 5.47 | |
| | | 68% | 48.56 | 2557 | 0.44 | 9.79 | 7145 | 475 | 5.38 | |
| | | 70% | 48.56 | 2693 | 0.47 | 10.54 | 7317 | 512 | 5.26 | |
| | | 75% | 48.56 | 3000 | 0.53 | 12.32 | 7729 | 598 | 5.02 | |
| | | 80% | 48.55 | 3294 | 0.57 | 14.05 | 8076 | 682 | 4.83 | |
| | | 90% | 48.54 | 3957 | 0.70 | 18.31 | 8840 | 889 | 4.45 | |
| 100% | 48.52 | 4660 | 0.81 | 23.11 | 9532 | 1121 | 4.16 | | | |
| MN501S KV240 | LIGPOWER P22*6.6 | 40% | 24.35 | 916 | 0.23 | 2.87 | 1914 | 70 | 13.09 | 68 (Ambient Temperature: 9.2°C) |
| | | 42% | 24.35 | 999 | 0.24 | 3.21 | 2002 | 78 | 12.78 | |
| | | 44% | 24.35 | 1088 | 0.26 | 3.59 | 2093 | 87 | 12.43 | |
| | | 46% | 24.35 | 1166 | 0.28 | 3.92 | 2176 | 96 | 12.20 | |
| | | 48% | 24.35 | 1246 | 0.30 | 4.31 | 2268 | 105 | 11.87 | |
| | | 50% | 24.35 | 1339 | 0.33 | 4.75 | 2361 | 116 | 11.59 | |
| | | 52% | 24.35 | 1453 | 0.35 | 5.28 | 2485 | 128 | 11.30 | |
| | | 54% | 24.35 | 1566 | 0.38 | 5.86 | 2595 | 143 | 10.97 | |
| | | 56% | 24.34 | 1684 | 0.41 | 6.46 | 2695 | 157 | 10.71 | |
| | | 58% | 24.34 | 1796 | 0.43 | 7.07 | 2797 | 172 | 10.44 | |
| | | 60% | 24.34 | 1900 | 0.46 | 7.69 | 2892 | 187 | 10.15 | |
| | | 62% | 24.33 | 2020 | 0.49 | 8.35 | 2979 | 203 | 9.94 | |
| | | 64% | 24.33 | 2147 | 0.52 | 9.16 | 3078 | 223 | 9.63 | |
| | | 66% | 24.33 | 2273 | 0.55 | 9.82 | 3185 | 239 | 9.51 | |
| | | 68% | 24.33 | 2394 | 0.57 | 10.60 | 3271 | 258 | 9.28 | |
| | | 70% | 24.32 | 2509 | 0.60 | 11.32 | 3358 | 275 | 9.11 | |
| | | 75% | 24.32 | 2823 | 0.68 | 13.44 | 3566 | 327 | 8.63 | |
| | | 80% | 24.31 | 3038 | 0.75 | 15.63 | 3785 | 380 | 7.99 | |
| 90% | 24.29 | 3454 | 0.90 | 20.62 | 4173 | 501 | 6.89 | | | |
| 100% | 24.27 | 4187 | 1.02 | 25.21 | 4478 | 612 | 6.84 | | | |
| | | 40% | 24.28 | 889 | 0.12 | 3.08 | 2594 | 75 | 11.89 | |
| | | 42% | 24.32 | 968 | 0.14 | 3.45 | 2701 | 84 | 11.53 | |
| | | 44% | 24.32 | 1058 | 0.16 | 3.87 | 2815 | 94 | 11.23 | |
| | | 46% | 24.32 | 1172 | 0.18 | 4.39 | 2949 | 107 | 10.98 | |
| | | 48% | 24.31 | 1271 | 0.20 | 4.89 | 3070 | 119 | 10.69 | |
| | | 50% | 24.31 | 1382 | 0.22 | 5.43 | 3186 | 132 | 10.48 | |

| | | | | | | | | | | |
|-----------------|---------------------|------|-------|-------|------|-------|------|-----|-------|--|
| MN501S KV300 | LIGPOWER P20*6 | 52% | 24.32 | 1489 | 0.25 | 6.06 | 3310 | 147 | 10.11 | 86.5 (Ambient Temperature: 9.2°C) |
| | | 54% | 24.31 | 1592 | 0.27 | 6.71 | 3438 | 163 | 9.76 | |
| | | 56% | 24.31 | 1712 | 0.30 | 7.35 | 3543 | 179 | 9.59 | |
| | | 58% | 24.31 | 1829 | 0.32 | 8.01 | 3646 | 195 | 9.39 | |
| | | 60% | 24.30 | 1944 | 0.34 | 8.68 | 3742 | 211 | 9.21 | |
| | | 62% | 24.30 | 2078 | 0.37 | 9.37 | 3736 | 228 | 9.13 | |
| | | 64% | 24.30 | 2163 | 0.40 | 10.22 | 3960 | 248 | 8.72 | |
| | | 66% | 24.30 | 2310 | 0.42 | 10.99 | 4058 | 267 | 8.65 | |
| | | 68% | 24.29 | 2424 | 0.45 | 11.73 | 4151 | 285 | 8.51 | |
| | | 70% | 24.29 | 2535 | 0.47 | 12.62 | 4233 | 306 | 8.27 | |
| | | 75% | 24.29 | 2852 | 0.53 | 14.75 | 4517 | 358 | 7.96 | |
| | | 80% | 24.28 | 3068 | 0.60 | 17.13 | 4725 | 416 | 7.38 | |
| | | 90% | 24.26 | 3710 | 0.73 | 22.59 | 5275 | 548 | 6.77 | |
| | | 100% | 24.24 | 4284 | 0.85 | 27.75 | 5603 | 673 | 6.37 | |
| MN501S KV300 | LIGPOWER P22*6.6 | 40% | 24.34 | 1204 | 0.22 | 4.25 | 2333 | 103 | 11.64 | HOT (Ambient Temperature: 9.2°C) |
| | | 42% | 24.34 | 1305 | 0.24 | 4.72 | 2422 | 115 | 11.36 | |
| | | 44% | 24.33 | 1421 | 0.27 | 5.28 | 2523 | 129 | 11.05 | |
| | | 46% | 24.33 | 1540 | 0.30 | 5.90 | 2627 | 144 | 10.73 | |
| | | 48% | 24.33 | 1666 | 0.33 | 6.62 | 2754 | 161 | 10.34 | |
| | | 50% | 24.33 | 1824 | 0.36 | 7.40 | 2859 | 180 | 10.14 | |
| | | 52% | 24.33 | 1980 | 0.40 | 8.23 | 2966 | 200 | 9.88 | |
| | | 54% | 24.32 | 2139 | 0.43 | 9.11 | 3276 | 222 | 9.65 | |
| | | 56% | 24.32 | 2266 | 0.46 | 9.94 | 3371 | 242 | 9.37 | |
| | | 58% | 24.32 | 2381 | 0.50 | 10.87 | 3463 | 264 | 9.00 | |
| | | 60% | 24.31 | 2530 | 0.54 | 11.83 | 3544 | 288 | 8.80 | |
| | | 62% | 24.31 | 2645 | 0.56 | 12.79 | 3639 | 311 | 8.51 | |
| | | 64% | 24.31 | 2803 | 0.60 | 13.98 | 3751 | 340 | 8.25 | |
| | | 66% | 24.31 | 2941 | 0.64 | 15.08 | 3835 | 367 | 8.02 | |
| | | 68% | 24.30 | 3008 | 0.67 | 16.11 | 3920 | 392 | 7.68 | |
| | | 70% | 24.30 | 3096 | 0.71 | 17.28 | 4090 | 420 | 7.38 | |
| | | 75% | 24.33 | 3507 | 0.80 | 20.38 | 4200 | 496 | 7.07 | |
| | | 80% | 24.32 | 4027 | 0.89 | 23.68 | 4478 | 576 | 6.99 | |
| 90% | 24.29 | 4655 | 1.06 | 31.11 | 4733 | 756 | 6.16 | | | |
| 100% | 24.27 | 5277 | 1.20 | 37.74 | 5017 | 916 | 5.76 | | | |
| | | 40% | 24.27 | 855 | 0.17 | 4.08 | 3190 | 99 | 8.63 | |
| | | 42% | 24.27 | 938 | 0.19 | 4.54 | 3333 | 110 | 8.51 | |
| | | 44% | 24.27 | 1029 | 0.21 | 5.02 | 3471 | 122 | 8.44 | |
| | | 46% | 24.26 | 1103 | 0.23 | 5.54 | 3620 | 134 | 8.21 | |

| | | | | | | | | | | |
|-----------------|---------------------|------|-------|-------|------|-------|------|-----|------|--|
| MN501S KV360 | LIGPOWER P17*5.8 | 48% | 24.27 | 1185 | 0.25 | 6.10 | 3748 | 148 | 8.01 | 57.5 (Ambient Temperature: 9.2°C) |
| | | 50% | 24.27 | 1256 | 0.27 | 6.66 | 3882 | 162 | 7.77 | |
| | | 52% | 24.30 | 1346 | 0.30 | 7.32 | 4017 | 178 | 7.56 | |
| | | 54% | 24.29 | 1464 | 0.32 | 8.11 | 4184 | 197 | 7.43 | |
| | | 56% | 24.29 | 1555 | 0.34 | 8.74 | 4314 | 212 | 7.32 | |
| | | 58% | 24.29 | 1664 | 0.32 | 9.48 | 4441 | 230 | 7.23 | |
| | | 60% | 24.29 | 1758 | 0.34 | 10.15 | 4558 | 247 | 7.13 | |
| | | 62% | 24.29 | 1853 | 0.35 | 10.91 | 4670 | 265 | 6.99 | |
| | | 64% | 24.28 | 1959 | 0.37 | 11.71 | 4777 | 284 | 6.89 | |
| | | 66% | 24.29 | 2040 | 0.39 | 12.48 | 4895 | 303 | 6.73 | |
| | | 68% | 24.28 | 2161 | 0.41 | 13.49 | 5041 | 327 | 6.60 | |
| | | 70% | 24.28 | 2245 | 0.43 | 14.34 | 5144 | 348 | 6.45 | |
| | | 75% | 24.27 | 2486 | 0.47 | 16.53 | 5396 | 401 | 6.19 | |
| | | 80% | 24.18 | 2777 | 0.53 | 19.42 | 5703 | 470 | 5.91 | |
| | | 90% | 24.20 | 3333 | 0.64 | 25.46 | 6266 | 616 | 5.41 | |
| 100% | 24.18 | 3837 | 0.74 | 31.46 | 6732 | 761 | 5.05 | | | |
| MN501S KV360 | LIGPOWER P18*6.1 | 40% | 23.94 | 917 | 0.06 | 3.93 | 2927 | 94 | 9.75 | 86.2 (Ambient Temperature: 9.2°C) |
| | | 42% | 23.93 | 989 | 0.07 | 4.35 | 3040 | 104 | 9.51 | |
| | | 44% | 23.93 | 1080 | 0.09 | 4.82 | 3153 | 115 | 9.36 | |
| | | 46% | 23.93 | 1160 | 0.11 | 5.32 | 3261 | 127 | 9.12 | |
| | | 48% | 23.94 | 1310 | 0.14 | 6.14 | 3476 | 147 | 8.92 | |
| | | 50% | 23.94 | 1450 | 0.17 | 7.09 | 3658 | 170 | 8.54 | |
| | | 52% | 23.94 | 1540 | 0.19 | 7.76 | 3786 | 186 | 8.29 | |
| | | 54% | 23.94 | 1657 | 0.21 | 8.48 | 3914 | 203 | 8.16 | |
| | | 56% | 23.94 | 1708 | 0.24 | 9.31 | 4043 | 223 | 7.66 | |
| | | 58% | 23.94 | 1881 | 0.28 | 10.36 | 4178 | 248 | 7.58 | |
| | | 60% | 23.94 | 2003 | 0.30 | 11.26 | 4321 | 270 | 7.43 | |
| | | 62% | 23.94 | 2138 | 0.32 | 12.10 | 4422 | 290 | 7.38 | |
| | | 64% | 23.95 | 2269 | 0.35 | 13.13 | 4540 | 314 | 7.22 | |
| | | 66% | 23.98 | 2400 | 0.38 | 14.24 | 4661 | 341 | 7.03 | |
| | | 68% | 23.98 | 2519 | 0.41 | 15.29 | 4774 | 367 | 6.87 | |
| 70% | 23.98 | 2671 | 0.44 | 16.46 | 4874 | 395 | 6.77 | | | |
| 75% | 23.99 | 2974 | 0.51 | 19.34 | 5153 | 464 | 6.41 | | | |
| 80% | 23.99 | 3276 | 0.58 | 22.39 | 5486 | 537 | 6.10 | | | |
| 90% | 24.00 | 3959 | 0.73 | 29.83 | 5908 | 716 | 5.53 | | | |
| 100% | 24.01 | 4644 | 0.90 | 38.43 | 6393 | 923 | 5.03 | | | |

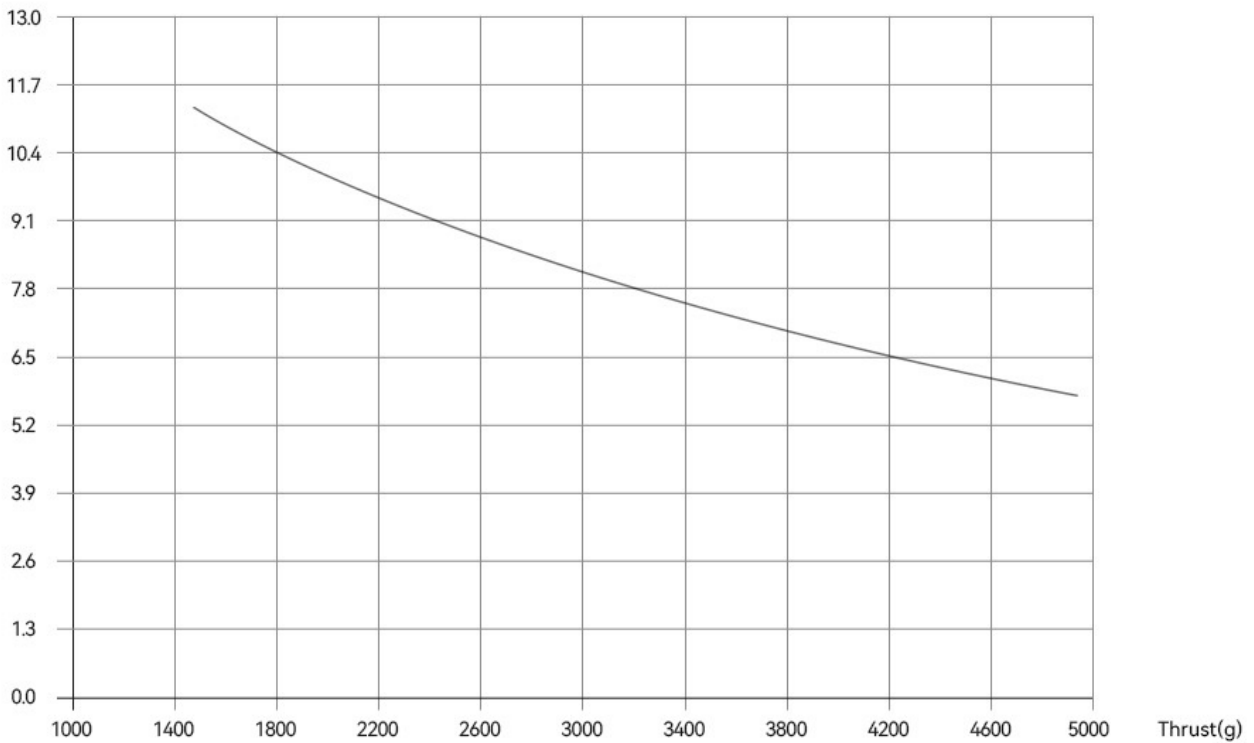
Note: Motor temperature is motor surface temperature at 100% throttle running 10mins.
(Date above based on benchtest are for reference only,comparison with that of other motor types is not recommended.)

I(A) P1(W) T(N*m) F(g) Eff(%)



Thrust, Efficiency, Torque, Power, Current & RPM Graph

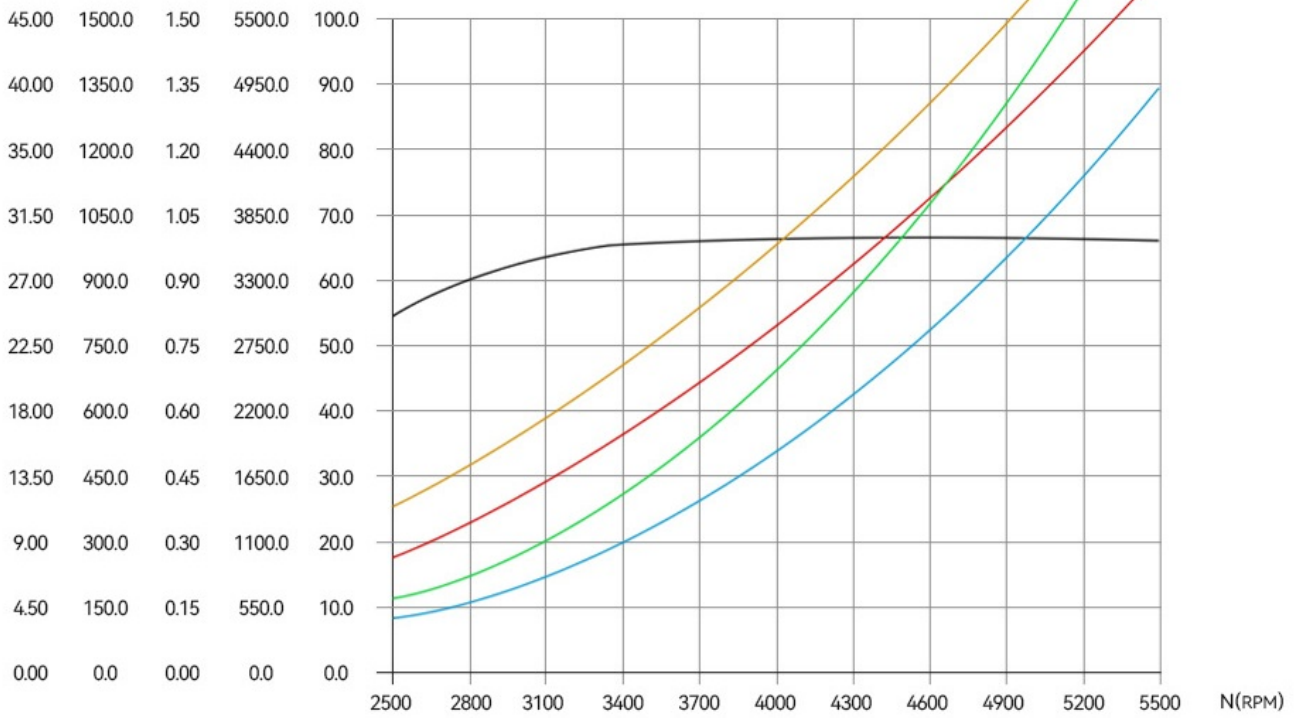
Efficiency (g/W)



Efficiency Graph

■ I(A) ■ P1(W) ■ T(N*m) ■ F(g) ■ Eff(%)

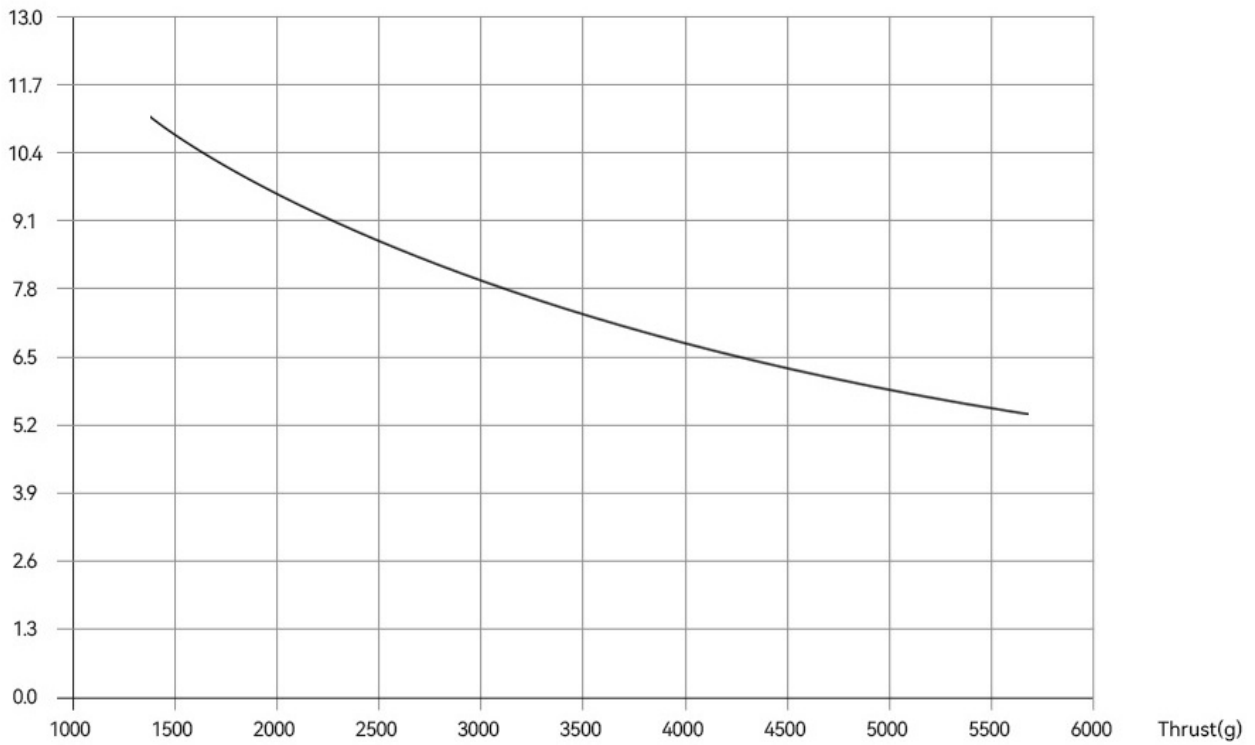
MN501S-KV300 . 22CF . 6S



Thrust, Efficiency, Torque, Power, Current & RPM Graph

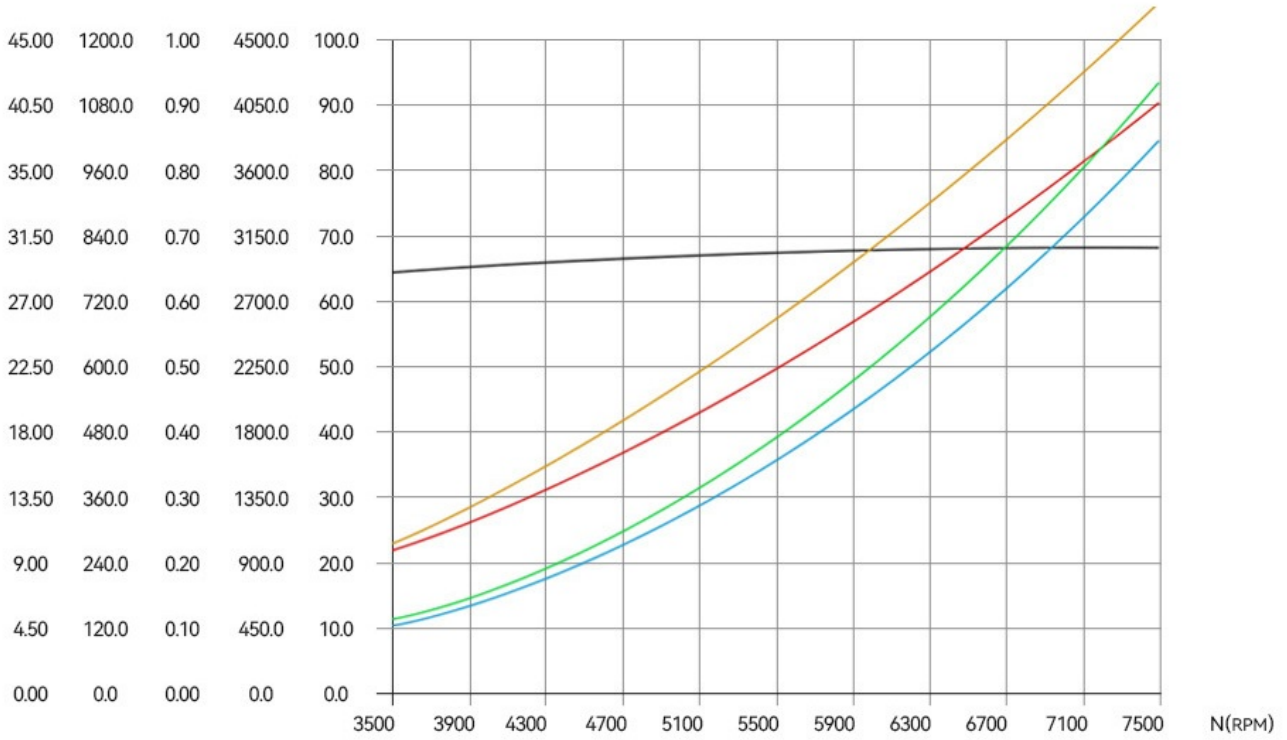
■ Efficiency (g/W)

MN501S-KV300 . 22CF . 6S



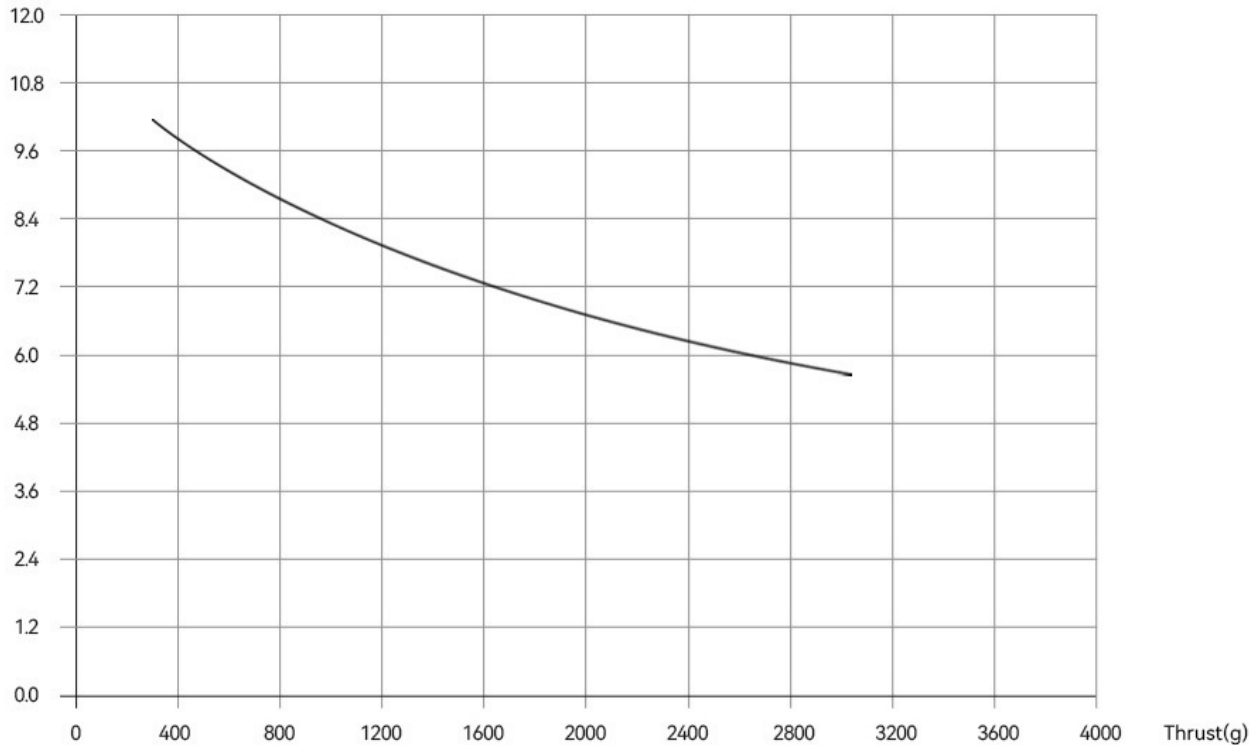
Efficiency Graph

I(A) P1(W) T(N*m) F(g) Eff(%)



Thrust, Efficiency, Torque, Power, Current & RPM Graph

Efficiency (g/W)



Efficiency Graph

Packing List

Before using this product, please check if all the items listed above are included in the packaging. If there are any missing items, please contact our online customer service or leave message to "onsales@ligpower.com" in time.