

Specification

| | | | |
|----------------------------|---------|--------------------------|----------------|
| Diameter | 87.1mm | Configuration | 36N42P |
| Height | 27.05mm | Lead Spec | 90mm |
| Shaft Diameter | 15mm | Packing Size | 130*111*50.6mm |
| KV | 85 | Rated Voltage (Lipo) | 12S |
| Motor Weight (Incl. Cable) | 243g | Propeller Recommendation | 28-29" |
| Idle Current (18V) | 0.5A | Quadcopter (28CF) | 10kg |
| Internal Resistance | 225±5mΩ | Hexacopter (28CF) | 15kg |
| Peak Current (180s) | 19.1A | Octocopter (28CF) | 20kg |
| Max. Power (180s) | 916.8W | | |
| KV | 100 | Rated Voltage (Lipo) | 12S |
| Motor Weight (Incl. Cable) | 238g | Propeller Recommendation | 27-28" |
| Idle Current (18V) | 0.7A | Quadcopter (28CF) | 14kg |
| Internal Resistance | 170±5mΩ | Hexacopter (28CF) | 21kg |
| Peak Current (180s) | 29.3A | Octocopter (28CF) | 28kg |
| Max. Power (180s) | 1406.4W | | |
| KV | 150 | Rated Voltage (Lipo) | 6S / 12S |
| Motor Weight (Incl. Cable) | 239g | Propeller Recommendation | 28-30" / 22" |

| | | | |
|----------------------------|----------------|--------------------------|--------|
| Idle Current (18V) | 1A | Quadcopter (28CF) | 8kg |
| Internal Resistance | 85±5mΩ | Hexacopter (28CF) | 12kg |
| Peak Current (180s) | 29.7A / 26.5A | Octocopter (28CF) | 16kg |
| Max. Power (180s) | 712.8W / 1272W | | |
| KV | 190 | Rated Voltage (Lipo) | 6S |
| Motor Weight (Incl. Cable) | 243g | Propeller Recommendation | 28-29" |
| Idle Current (18V) | 1.3A | Quadcopter (28CF) | 12kg |
| Internal Resistance | 48±3mΩ | Hexacopter (28CF) | 18kg |
| Peak Current (180s) | 43.7A | Octocopter (28CF) | 24kg |
| Max. Power (180s) | 1048.8W | | |

Test Data

| Type | Voltage (V) | Propeller | Throttle | Thrust (g) | Torque (N*m) | Current (A) | RPM | Power (W) | Efficiency (g/W) | Operating Temperature (°C) |
|----------------|--------------|----------------------------|----------|------------|--------------|-------------|------|-----------|------------------|---|
| U8lite KV85 | 12S (48V) | LIGPOWER G28*9.2" CF | 40% | 1465 | 0.45 | 1.80 | 1584 | 86 | 16.96 | 88 (Ambient Temperature: 26.9°C) |
| | | | 42% | 1572 | 0.48 | 2.00 | 1631 | 96 | 16.38 | |
| | | | 44% | 1717 | 0.53 | 2.30 | 1692 | 110 | 15.55 | |
| | | | 46% | 1852 | 0.58 | 2.60 | 1748 | 125 | 14.84 | |
| | | | 48% | 1997 | 0.6 | 2.90 | 1810 | 139 | 14.35 | |
| | | | 50% | 2140 | 0.66 | 3.20 | 1872 | 154 | 13.93 | |
| | | | 52% | 2256 | 0.68 | 3.40 | 1928 | 163 | 13.82 | |
| | | | 54% | 2378 | 0.71 | 3.70 | 1988 | 178 | 13.39 | |
| | | | 56% | 2528 | 0.77 | 4.10 | 2047 | 197 | 12.85 | |
| | | | 58% | 2757 | 0.84 | 4.60 | 2124 | 221 | 12.49 | |
| | | | 60% | 2957 | 0.9 | 5.10 | 2190 | 245 | 12.08 | |
| | | | 62% | 3027 | 0.91 | 5.30 | 2232 | 254 | 11.9 | |
| | | | 64% | 3171 | 0.95 | 5.70 | 2287 | 274 | 11.59 | |
| | | | 66% | 3307 | 1 | 6.20 | 2349 | 298 | 11.11 | |
| | | | 68% | 3448 | 1.04 | 6.60 | 2384 | 317 | 10.88 | |
| | | | 70% | 3662 | 1.08 | 7.10 | 2439 | 341 | 10.75 | |
| | | | 75% | 4043 | 1.17 | 8.20 | 2570 | 394 | 10.27 | |
| | | | 80% | 4468 | 1.28 | 9.50 | 2680 | 456 | 9.8 | |
| | | | 90% | 5248 | 1.47 | 12.20 | 2917 | 586 | 8.96 | |
| 100% | 6352 | 1.8 | 16.50 | 3200 | 792 | 8.02 | | | | |
| | | | 40% | 1696 | 0.53 | 2.10 | 1547 | 101 | 16.83 | |
| | | | 42% | 1829 | 0.59 | 2.40 | 1607 | 115 | 15.88 | |
| | | | 44% | 1959 | 0.63 | 2.70 | 1654 | 130 | 15.12 | |
| | | | 46% | 2119 | 0.68 | 3.00 | 1720 | 144 | 14.72 | |
| | | | 48% | 2248 | 0.69 | 3.20 | 1767 | 154 | 14.64 | |
| | | | 50% | 2412 | 0.78 | 3.70 | 1837 | 178 | 13.58 | |

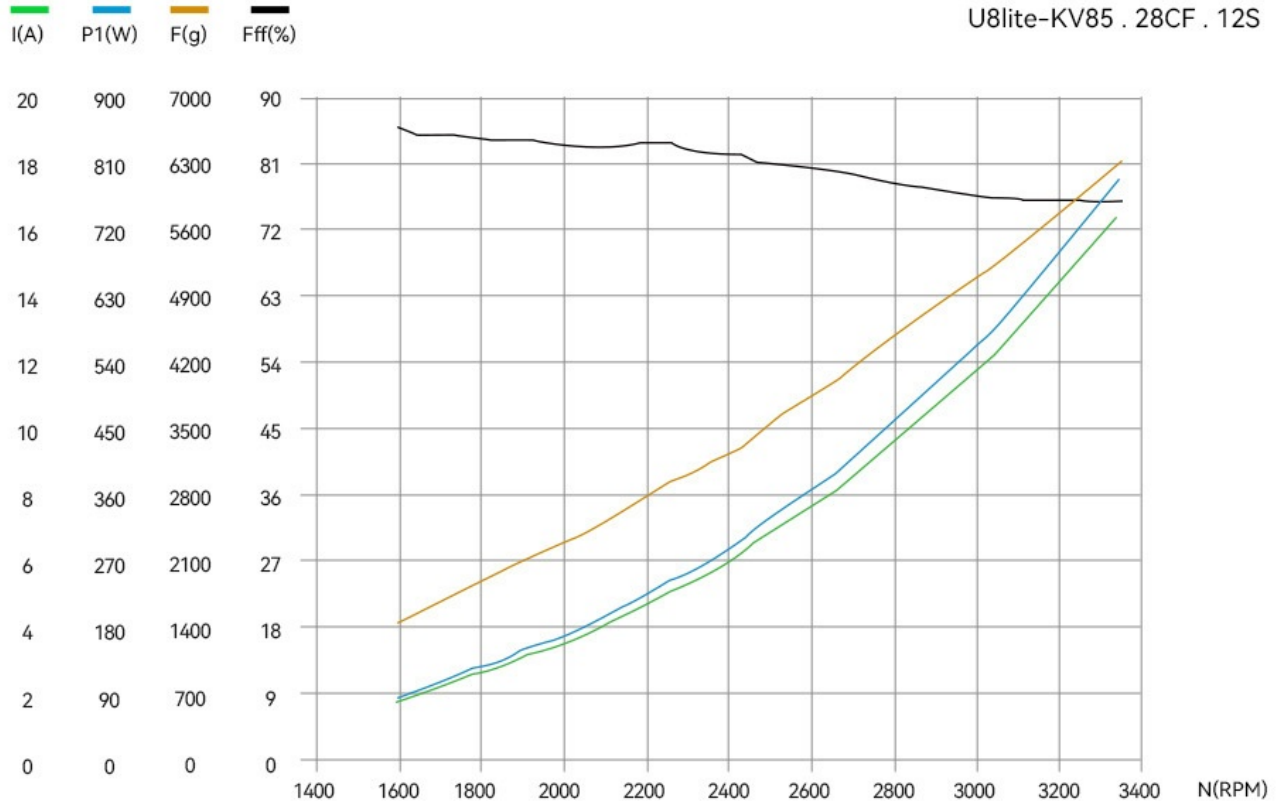
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|-----------------|--------------|----------------------------|-------|------|------|-------|------|-----|-------|--|
| U8lite KV85 | 12S (48V) | LIGPOWER G29*9.5" CF | 52% | 2610 | 0.81 | 4.00 | 1906 | 192 | 13.59 | HOT (Ambient Temperature: 27.6°C) |
| | | | 54% | 2759 | 0.86 | 4.40 | 1958 | 211 | 13.06 | |
| | | | 56% | 2885 | 0.89 | 4.70 | 2001 | 226 | 12.79 | |
| | | | 58% | 3193 | 1.01 | 5.50 | 2100 | 264 | 12.09 | |
| | | | 60% | 3285 | 1.03 | 5.80 | 2139 | 278 | 11.8 | |
| | | | 62% | 3429 | 1.07 | 6.20 | 2184 | 298 | 11.52 | |
| | | | 64% | 3561 | 1.09 | 6.50 | 2236 | 312 | 11.41 | |
| | | | 66% | 3740 | 1.15 | 7.10 | 2285 | 341 | 10.97 | |
| | | | 68% | 3953 | 1.28 | 7.70 | 2332 | 370 | 10.7 | |
| | | | 70% | 4094 | 1.26 | 8.20 | 2394 | 394 | 10.4 | |
| | | | 75% | 4517 | 1.39 | 9.50 | 2506 | 456 | 9.91 | |
| | | | 80% | 4961 | 1.49 | 11.00 | 2626 | 528 | 9.4 | |
| | | | 90% | 5875 | 1.69 | 14.00 | 2858 | 672 | 8.74 | |
| | | | 100% | 7130 | 2.09 | 19.10 | 3104 | 917 | 7.78 | |
| U8lite KV100 | 12S (48V) | LIGPOWER G27*8.8" CF | 40% | 1976 | 0.67 | 3.10 | 1919 | 149 | 13.28 | 87 (Ambient Temperature: 27.81°C) |
| | | | 42% | 2130 | 0.71 | 3.40 | 1972 | 163 | 13.05 | |
| | | | 44% | 2430 | 0.82 | 4.10 | 2108 | 197 | 12.35 | |
| | | | 46% | 2504 | 0.85 | 4.40 | 2154 | 211 | 11.86 | |
| | | | 48% | 2660 | 0.89 | 4.80 | 2221 | 230 | 11.55 | |
| | | | 50% | 2894 | 0.97 | 5.40 | 2302 | 259 | 11.17 | |
| | | | 52% | 3090 | 1.02 | 5.90 | 2381 | 283 | 10.91 | |
| | | | 54% | 3281 | 1.08 | 6.50 | 2439 | 312 | 10.52 | |
| | | | 56% | 3439 | 1.11 | 6.90 | 2502 | 331 | 10.38 | |
| | | | 58% | 3593 | 1.15 | 7.40 | 2573 | 355 | 10.12 | |
| | | | 60% | 3774 | 1.19 | 7.90 | 2635 | 379 | 9.95 | |
| | | | 62% | 4026 | 1.29 | 8.80 | 2720 | 422 | 9.53 | |
| | | | 64% | 4220 | 1.32 | 9.30 | 2773 | 446 | 9.45 | |
| | | | 66% | 4365 | 1.35 | 9.80 | 2823 | 470 | 9.28 | |
| | | | 68% | 4532 | 1.41 | 10.50 | 2874 | 504 | 8.99 | |
| | | | 70% | 4673 | 1.43 | 11.00 | 2938 | 528 | 8.85 | |
| 75% | 5129 | 1.55 | 12.70 | 3064 | 610 | 8.41 | | | | |
| 80% | 5635 | 1.7 | 14.80 | 3214 | 710 | 7.93 | | | | |
| 90% | 6715 | 1.97 | 19.20 | 3494 | 922 | 7.29 | | | | |
| 100% | 8164 | 2.42 | 26.00 | 3777 | 1248 | 6.54 | | | | |
| | | | 40% | 2243 | 0.77 | 3.50 | 1896 | 168 | 13.35 | |
| | | | 42% | 2401 | 0.82 | 3.90 | 1964 | 187 | 12.83 | |
| | | | 44% | 2555 | 0.85 | 4.20 | 2020 | 202 | 12.67 | |
| | | | 46% | 2881 | 0.99 | 5.10 | 2144 | 245 | 11.77 | |
| | | | 48% | 3008 | 1.01 | 5.40 | 2190 | 259 | 11.6 | |

| | | | | | | | | | | |
|-----------------|-------------|-----------------------------|-------|------|------|-------|------|-----|-------|--|
| U8lite KV150 | 6S (24V) | LIGPOWER G29*9.5" CF | 42% | 1416 | 0.48 | 3.60 | 1419 | 86 | 16.39 | 87 (Ambient Temperature: 27.6°C) |
| | | | 44% | 1509 | 0.5 | 3.90 | 1454 | 94 | 16.12 | |
| | | | 46% | 1654 | 0.55 | 4.40 | 1501 | 106 | 15.66 | |
| | | | 48% | 1728 | 0.56 | 4.70 | 1554 | 113 | 15.32 | |
| | | | 50% | 1833 | 0.6 | 5.20 | 1610 | 125 | 14.69 | |
| | | | 52% | 2006 | 0.65 | 5.80 | 1652 | 139 | 14.41 | |
| | | | 54% | 2128 | 0.68 | 6.30 | 1698 | 151 | 14.07 | |
| | | | 56% | 2243 | 0.72 | 6.90 | 1756 | 166 | 13.54 | |
| | | | 58% | 2357 | 0.77 | 7.60 | 1804 | 182 | 12.92 | |
| | | | 60% | 2486 | 0.79 | 8.00 | 1849 | 192 | 12.95 | |
| | | | 62% | 2612 | 0.82 | 8.60 | 1884 | 206 | 12.66 | |
| | | | 64% | 2707 | 0.84 | 9.10 | 1941 | 218 | 12.39 | |
| | | | 66% | 2862 | 0.88 | 9.80 | 1989 | 235 | 12.17 | |
| | | | 68% | 2995 | 0.92 | 10.50 | 2020 | 252 | 11.88 | |
| | | | 70% | 3142 | 0.98 | 11.50 | 2071 | 276 | 11.38 | |
| | | | 75% | 3469 | 1.06 | 13.20 | 2188 | 317 | 10.95 | |
| | | | 80% | 3774 | 1.15 | 15.20 | 2284 | 365 | 10.35 | |
| | | | 90% | 4536 | 1.34 | 19.80 | 2484 | 475 | 9.55 | |
| 100% | 5378 | 1.61 | 26.20 | 2712 | 629 | 8.55 | | | | |
| U8lite KV150 | 6S (24V) | LIGPOWER G30*10.5" CF | 40% | 1551 | 0.54 | 3.80 | 1321 | 91 | 17.01 | 103 (Ambient Temperature: 29.5°C) |
| | | | 42% | 1684 | 0.59 | 4.30 | 1374 | 103 | 16.32 | |
| | | | 44% | 1766 | 0.6 | 4.60 | 1418 | 110 | 16 | |
| | | | 46% | 1850 | 0.63 | 5.00 | 1457 | 120 | 15.42 | |
| | | | 48% | 1991 | 0.69 | 5.70 | 1513 | 137 | 14.55 | |
| | | | 50% | 2132 | 0.73 | 6.20 | 1560 | 149 | 14.33 | |
| | | | 52% | 2256 | 0.76 | 6.70 | 1603 | 161 | 14.03 | |
| | | | 54% | 2420 | 0.81 | 7.40 | 1663 | 178 | 13.63 | |
| | | | 56% | 2536 | 0.84 | 7.90 | 1699 | 190 | 13.38 | |
| | | | 58% | 2676 | 0.87 | 8.50 | 1743 | 204 | 13.12 | |
| | | | 60% | 2816 | 0.91 | 9.20 | 1793 | 221 | 12.75 | |
| | | | 62% | 2923 | 0.94 | 9.80 | 1838 | 235 | 12.43 | |
| | | | 64% | 3097 | 1 | 10.70 | 1886 | 257 | 12.06 | |
| | | | 66% | 3229 | 1.05 | 11.50 | 1924 | 276 | 11.7 | |
| | | | 68% | 3334 | 1.07 | 12.10 | 1967 | 290 | 11.48 | |
| | | | 70% | 3475 | 1.11 | 12.90 | 2007 | 310 | 11.22 | |
| | | | 75% | 3917 | 1.24 | 15.40 | 2120 | 370 | 10.6 | |
| | | | 80% | 4237 | 1.33 | 17.50 | 2204 | 420 | 10.09 | |
| 90% | 5020 | 1.55 | 22.80 | 2383 | 547 | 9.17 | | | | |
| 100% | 5912 | 1.83 | 29.70 | 2573 | 713 | 8.29 | | | | |

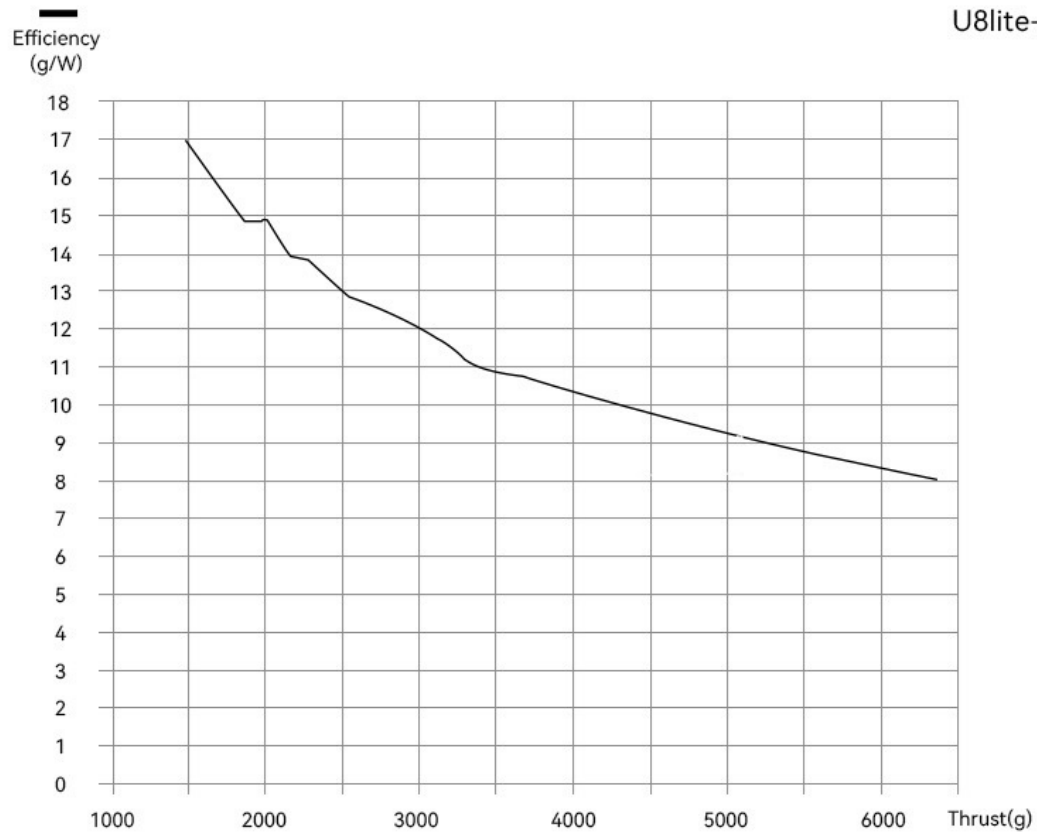
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|-----------------|-------------|----------------------------|------|------|------|-------|------|------|-------|--|
| | | | 90% | 5563 | 1.56 | 29.00 | 2972 | 696 | 7.99 | |
| | | | 100% | 6761 | 1.88 | 38.70 | 3248 | 929 | 7.28 | |
| U8lite KV190 | 6S (24V) | LIGPOWER G29*9.5" CF | 40% | 1879 | 0.64 | 5.60 | 1616 | 134 | 13.98 | HOT (Ambient Temperature: 27.9°C) |
| | | | 42% | 2035 | 0.68 | 6.20 | 1662 | 149 | 13.68 | |
| | | | 44% | 2173 | 0.73 | 6.90 | 1722 | 166 | 13.12 | |
| | | | 46% | 2328 | 0.75 | 7.50 | 1775 | 180 | 12.93 | |
| | | | 48% | 2486 | 0.8 | 8.30 | 1828 | 199 | 12.48 | |
| | | | 50% | 2627 | 0.85 | 9.10 | 1899 | 218 | 12.03 | |
| | | | 52% | 2812 | 0.89 | 9.90 | 1955 | 238 | 11.84 | |
| | | | 54% | 2961 | 0.93 | 10.70 | 2008 | 257 | 11.53 | |
| | | | 56% | 3195 | 1.01 | 12.00 | 2073 | 288 | 11.09 | |
| | | | 58% | 3344 | 1.06 | 13.00 | 2129 | 312 | 10.72 | |
| | | | 60% | 3502 | 1.13 | 14.20 | 2174 | 341 | 10.28 | |
| | | | 62% | 3669 | 1.13 | 14.70 | 2223 | 353 | 10.4 | |
| | | | 64% | 3833 | 1.21 | 16.20 | 2286 | 389 | 9.86 | |
| | | | 66% | 4005 | 1.24 | 17.10 | 2348 | 410 | 9.76 | |
| | | | 68% | 4214 | 1.3 | 18.40 | 2400 | 442 | 9.54 | |
| | | | 70% | 4365 | 1.34 | 19.50 | 2432 | 468 | 9.33 | |
| | | | 75% | 4782 | 1.44 | 22.50 | 2541 | 540 | 8.86 | |
| | | | 80% | 5184 | 1.53 | 25.40 | 2662 | 610 | 8.5 | |
| | | | 90% | 6026 | 1.73 | 32.20 | 2866 | 773 | 7.8 | |
| | | | 100% | 7334 | 2.13 | 43.70 | 3125 | 1049 | 6.99 | |

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

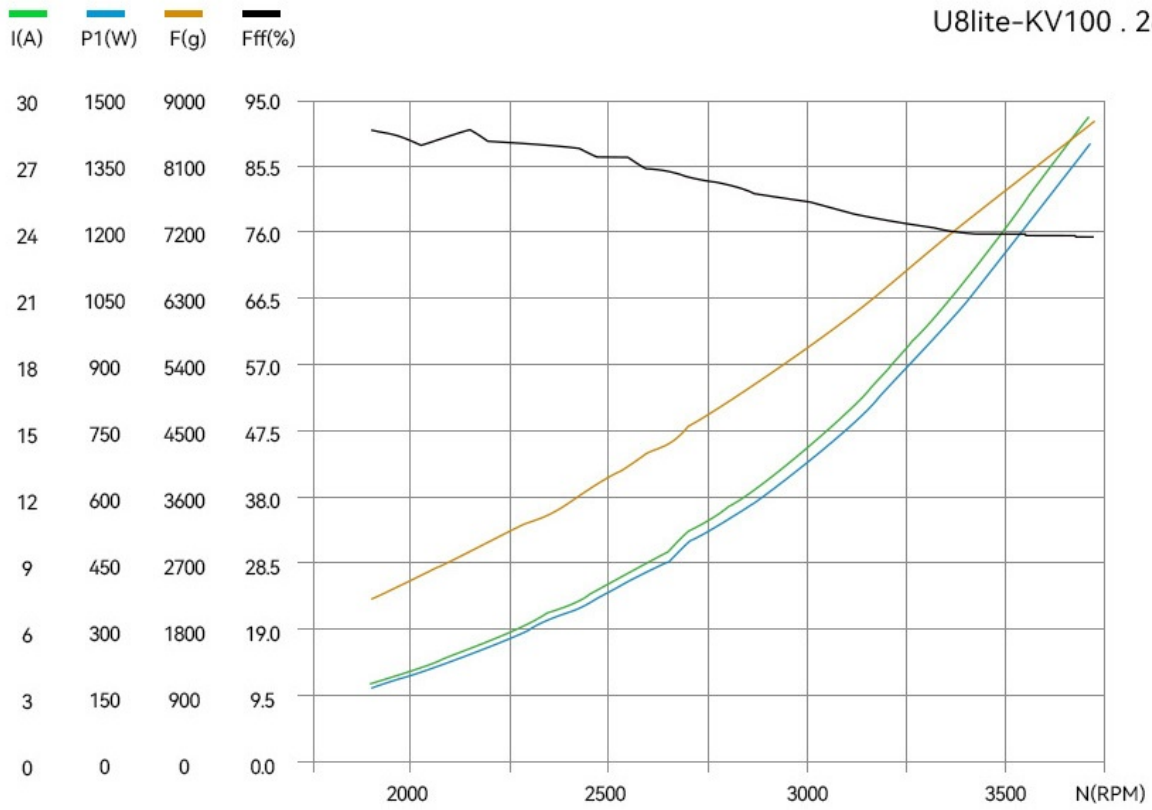
Analysis Chart



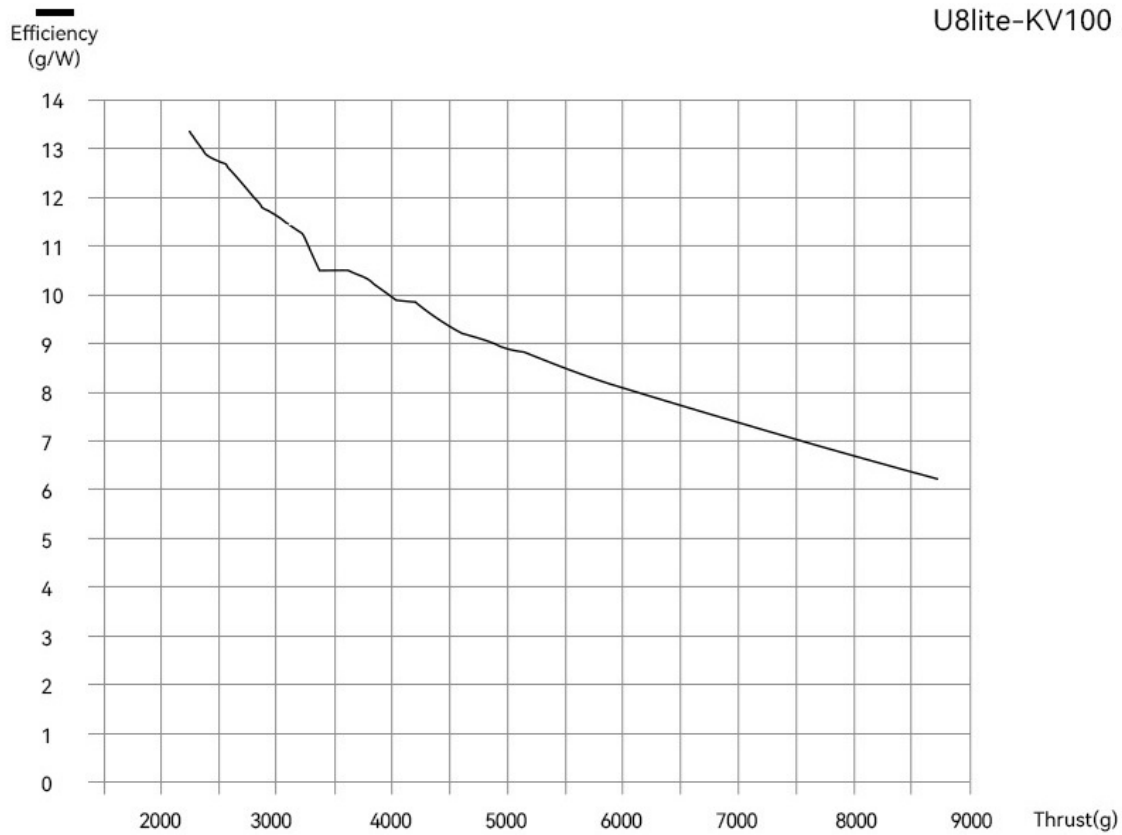
Thrust, Efficiency, Input power & Current -RPM Graph



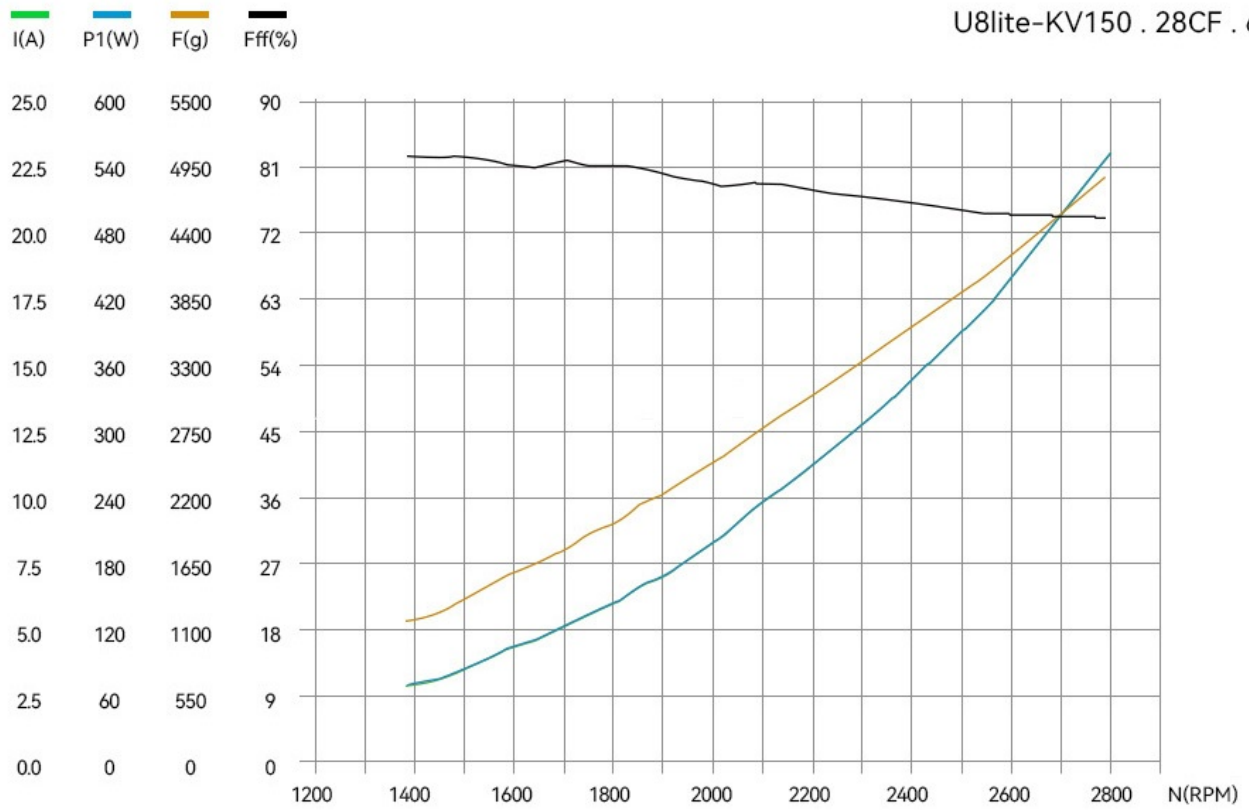
Efficiency -Thrust Graph



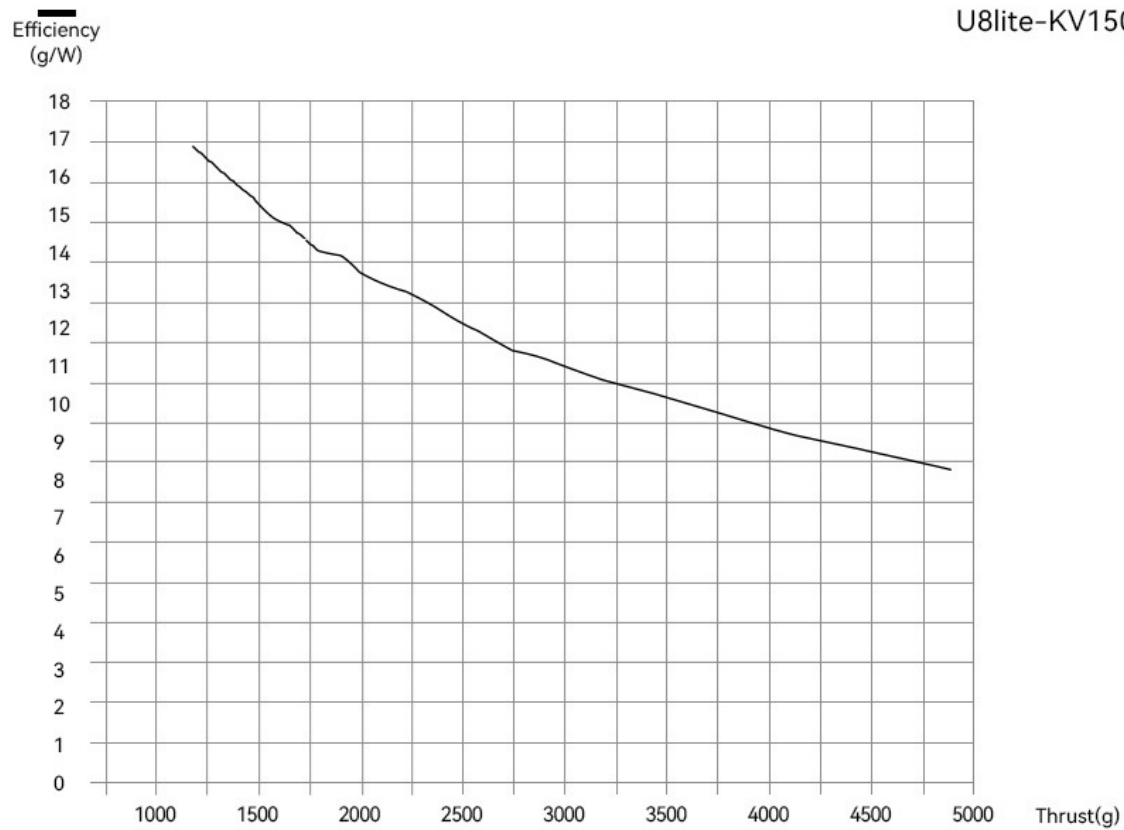
Thrust, Efficiency, Input power & Current -RPM Graph



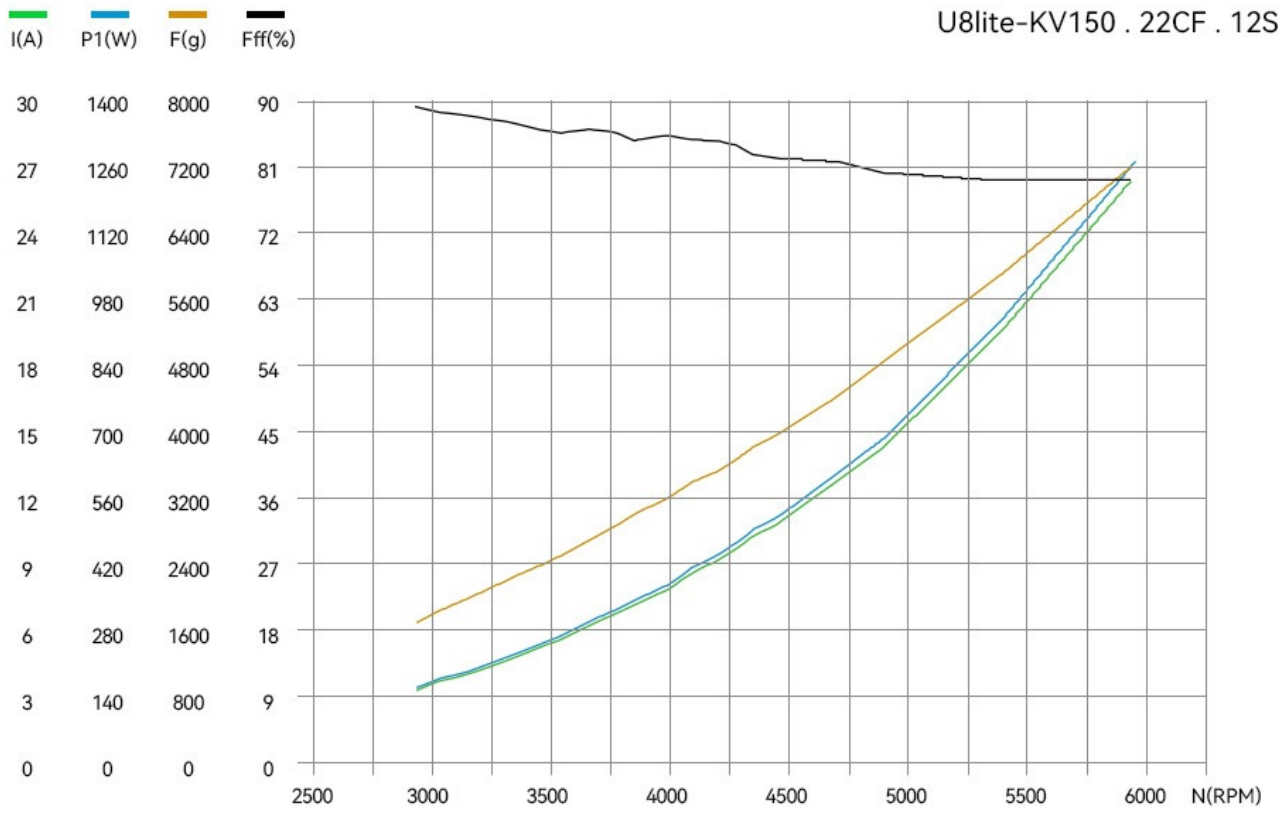
Efficiency -Thrust Graph



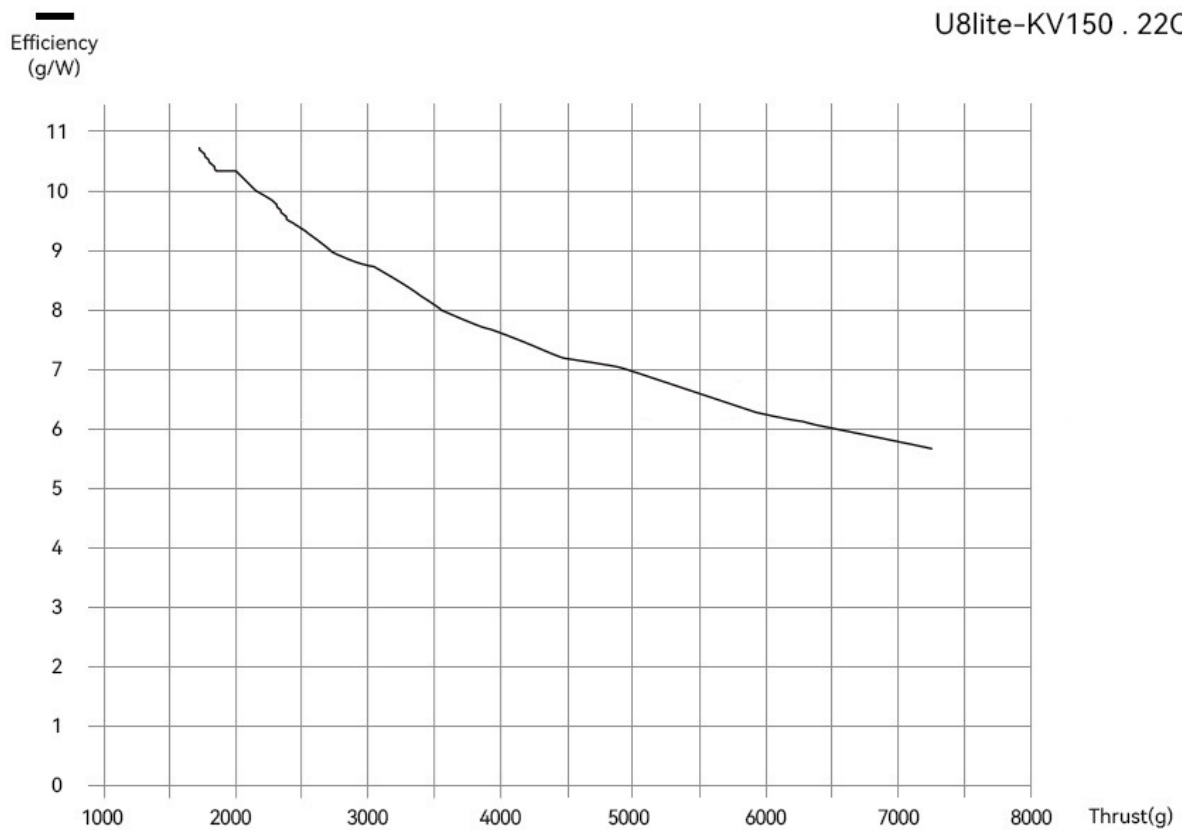
Thrust, Efficiency, Input power & Current -RPM Graph



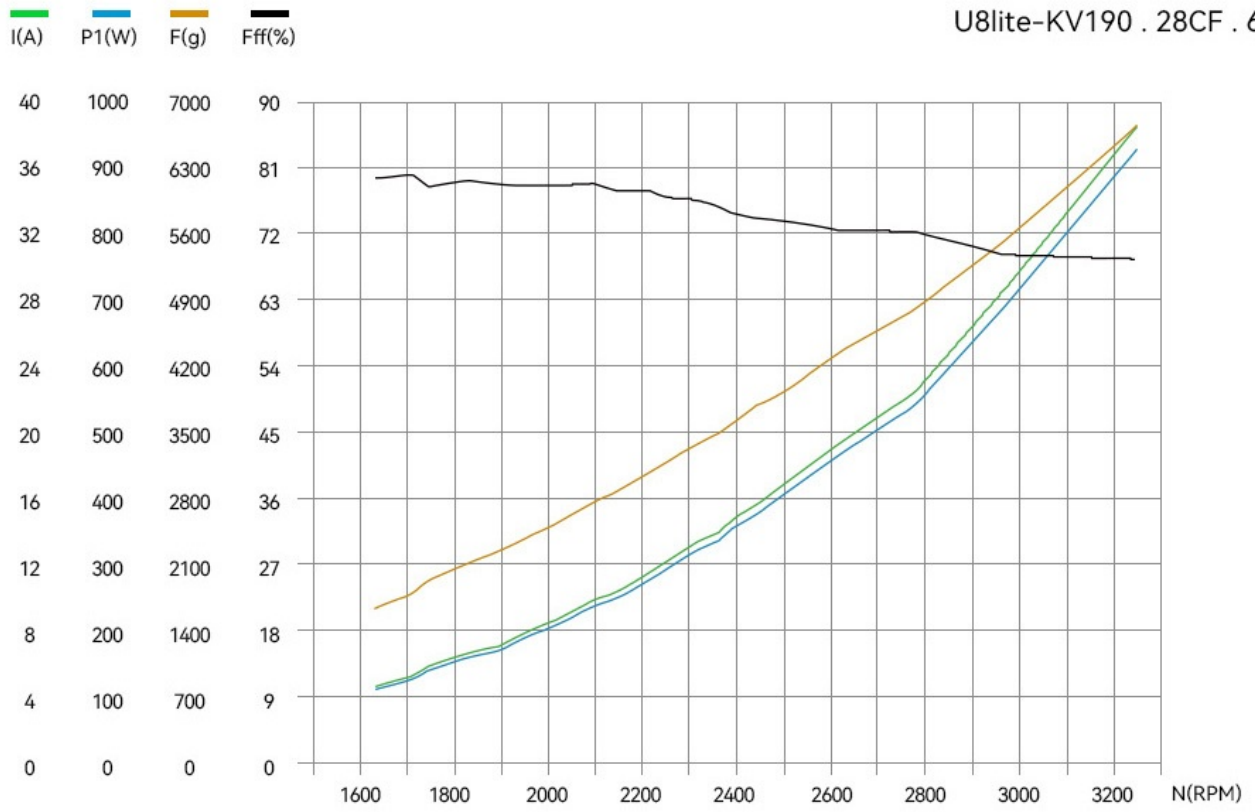
Efficiency -Thrust Graph



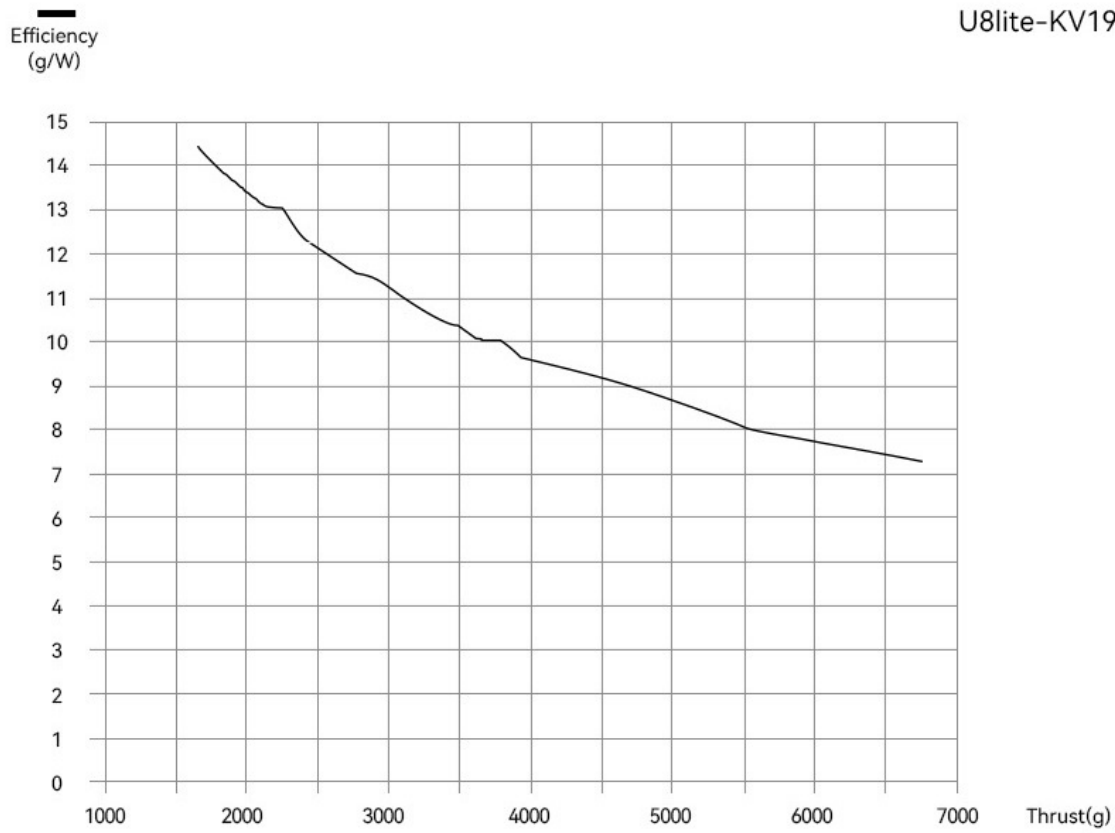
Thrust, Efficiency, Input power & Current -RPM Graph



Efficiency -Thrust Graph



Thrust, Efficiency, Input power & Current -RPM Graph



Efficiency -Thrust Graph



Motor × 1



Parts Bag × 1

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 "onlinesales@ligpower.com" in time.