



Specifications

| | | | |
|-------------------|-------------------------|----------------------|--------|
| Test Item | KV160 | Weight (Incl. Cable) | 985g |
| Motor Dimensions | Φ90*75.8mm | Internal Resistance | 14mΩ |
| Lead | Wound Wire Outlet 100mm | Configuration | 24N28P |
| Shaft Diameter | IN: 12mm OUT: 10mm | Rated Voltage(LiPo) | 10-14S |
| Idle Current(10V) | 4.0A | Peak Current(180s) | 115A |
| Max. Power(180s) | 5000W/12S, 5800W/14S | | |
| Test Item | KV190 | Weight (Incl. Cable) | 990g |
| Motor Dimensions | Φ90*75.8mm | Internal Resistance | 10mΩ |
| Lead | Wound Wire Outlet 100mm | Configuration | 24N28P |
| Shaft Diameter | IN: 12mm OUT: 10mm | Rated Voltage(LiPo) | 10-12S |
| Idle Current(10V) | 5.0A | Peak Current(180s) | 135A |
| Max. Power(180s) | 6000W/12S | | |

Continued below

| Test Report | | | | | | | | | | |
|--------------|-----------|----------|-------------|-------------|-----------|-------|--------------|------------|------------------|----------------------------|
| Type | Propeller | Throttle | Voltage (V) | Current (A) | Power (W) | RPM | Torque (N*m) | Thrust (g) | Efficiency (g/W) | Operating Temperature (°C) |
| AT8025 KV160 | 24*10 | 40% | 44.57 | 8.95 | 398.80 | 2806 | 0.922 | 3061 | 7.67 | 67°C |
| | | 45% | 44.55 | 10.95 | 487.92 | 3031 | 1.076 | 3595 | 7.37 | |
| | | 50% | 44.53 | 13.66 | 608.40 | 3302 | 1.275 | 4278 | 7.03 | |
| | | 55% | 44.51 | 16.94 | 754.13 | 3593 | 1.505 | 5065 | 6.72 | |
| | | 60% | 44.48 | 20.77 | 923.56 | 3864 | 1.743 | 5894 | 6.38 | |
| | | 65% | 44.44 | 25.37 | 1127.30 | 4164 | 2.027 | 6858 | 6.08 | |
| | | 70% | 44.40 | 30.83 | 1368.76 | 4472 | 2.346 | 7941 | 5.80 | |
| | | 75% | 44.36 | 36.84 | 1634.23 | 4765 | 2.675 | 9062 | 5.55 | |
| | | 80% | 44.30 | 43.90 | 1944.71 | 5054 | 3.031 | 10264 | 5.28 | |
| | | 85% | 44.24 | 51.68 | 2286.19 | 5333 | 3.404 | 11501 | 5.03 | |
| | | 90% | 44.17 | 60.45 | 2669.77 | 5607 | 3.794 | 12799 | 4.79 | |
| | 100% | 44.02 | 78.92 | 3474.27 | 6120 | 4.600 | 15420 | 4.44 | | |
| | 25*10 | 40% | 44.62 | 9.58 | 427.54 | 2708 | 1.014 | 3245 | 7.59 | 75°C |
| | | 45% | 44.60 | 12.08 | 538.82 | 2973 | 1.217 | 3921 | 7.28 | |
| | | 50% | 44.57 | 15.32 | 682.65 | 3264 | 1.466 | 4757 | 6.97 | |
| | | 55% | 44.54 | 19.23 | 856.49 | 3552 | 1.733 | 5639 | 6.58 | |
| | | 60% | 44.51 | 23.25 | 1034.62 | 3831 | 2.016 | 6575 | 6.36 | |
| | | 65% | 44.46 | 28.83 | 1281.62 | 4123 | 2.340 | 7669 | 5.98 | |
| | | 70% | 44.41 | 35.11 | 1559.11 | 4423 | 2.704 | 8854 | 5.68 | |
| | | 75% | 44.35 | 42.18 | 1871.01 | 4717 | 3.087 | 10136 | 5.42 | |
| | | 80% | 44.29 | 50.02 | 2215.59 | 4999 | 3.490 | 11471 | 5.18 | |
| | | 85% | 44.22 | 58.87 | 2603.34 | 5274 | 3.909 | 12826 | 4.93 | |
| | | 90% | 44.14 | 68.33 | 3016.11 | 5539 | 4.339 | 14182 | 4.70 | |
| | 100% | 43.97 | 89.78 | 3947.90 | 6036 | 5.258 | 17136 | 4.34 | | |
| | 26*12 | 40% | 44.58 | 11.42 | 509.21 | 2596 | 1.332 | 3959 | 7.78 | 88°C |
| | | 45% | 44.55 | 15.05 | 670.43 | 2891 | 1.659 | 4910 | 7.32 | |
| | | 50% | 44.51 | 19.62 | 873.19 | 3183 | 1.994 | 5976 | 6.84 | |
| | | 55% | 44.47 | 24.78 | 1101.82 | 3471 | 2.365 | 7104 | 6.45 | |
| | | 60% | 44.43 | 30.42 | 1351.57 | 3739 | 2.737 | 8247 | 6.10 | |
| | | 65% | 44.37 | 37.33 | 1656.54 | 4023 | 3.174 | 9584 | 5.79 | |
| | | 70% | 44.31 | 45.33 | 2008.69 | 4310 | 3.633 | 10941 | 5.45 | |
| | | 75% | 44.23 | 54.65 | 2417.28 | 4590 | 4.117 | 12432 | 5.14 | |
| | | 80% | 44.16 | 64.25 | 2837.31 | 4855 | 4.624 | 13890 | 4.90 | |
| 85% | | 44.07 | 75.46 | 3325.48 | 5112 | 5.150 | 15433 | 4.64 | | |
| 90% | | 43.98 | 87.28 | 3838.19 | 5362 | 5.694 | 17014 | 4.43 | | |
| 100% | 43.74 | 115.07 | 5033.52 | 5825 | 6.863 | 20360 | 4.04 | | | |
| 23*10 | 40% | 52.18 | 10.58 | 552.29 | 3302 | 1.087 | 3642 | 6.59 | 76°C | |
| | 45% | 52.16 | 12.82 | 668.83 | 3554 | 1.262 | 4239 | 6.34 | | |
| | 50% | 52.13 | 15.92 | 830.11 | 3861 | 1.486 | 5026 | 6.05 | | |
| | 55% | 52.10 | 19.76 | 1029.43 | 4193 | 1.750 | 5946 | 5.78 | | |
| | 60% | 52.06 | 24.26 | 1263.22 | 4521 | 2.048 | 6994 | 5.54 | | |
| | 65% | 52.02 | 29.72 | 1545.98 | 4871 | 2.388 | 8154 | 5.27 | | |
| 23*10 | 70% | 51.96 | 36.31 | 1886.85 | 5222 | 2.768 | 9441 | 5.00 | 76°C | |
| | 75% | 51.90 | 43.78 | 2271.97 | 5564 | 3.167 | 10805 | 4.76 | | |
| | 80% | 51.84 | 51.75 | 2682.65 | 5894 | 3.578 | 12197 | 4.55 | | |
| | 85% | 51.76 | 60.74 | 3143.74 | 6209 | 4.004 | 13585 | 4.32 | | |
| | 90% | 51.68 | 70.55 | 3646.31 | 6514 | 4.450 | 15000 | 4.11 | | |
| | 100% | 51.51 | 91.30 | 4702.73 | 7072 | 5.335 | 17768 | 3.78 | | |

Continued below

| | | | | | | | | | | |
|------|-------|--------|---------|---------|---------|-------|-------|-------|------|-------|
| | 24*10 | 40% | 52.16 | 11.04 | 575.99 | 3179 | 1.195 | 3858 | 6.70 | 89°C |
| | | 45% | 52.14 | 13.89 | 724.26 | 3478 | 1.427 | 4681 | 6.46 | |
| | | 50% | 52.11 | 17.54 | 913.70 | 3803 | 1.702 | 5634 | 6.17 | |
| | | 55% | 52.07 | 21.91 | 1140.84 | 4131 | 2.002 | 6685 | 5.86 | |
| | | 60% | 52.02 | 27.27 | 1418.53 | 4471 | 2.347 | 7877 | 5.55 | |
| | | 65% | 51.97 | 33.78 | 1755.27 | 4818 | 2.747 | 9209 | 5.25 | |
| | | 70% | 51.90 | 40.87 | 2121.25 | 5157 | 3.159 | 10636 | 5.01 | |
| | | 75% | 51.84 | 49.19 | 2549.96 | 5494 | 3.618 | 12149 | 4.76 | |
| | | 80% | 51.77 | 58.24 | 3015.48 | 5818 | 4.088 | 13721 | 4.55 | |
| | | 85% | 51.69 | 68.18 | 3524.36 | 6123 | 4.571 | 15313 | 4.35 | |
| | | 90% | 51.60 | 79.33 | 4093.14 | 6420 | 5.078 | 16948 | 4.14 | |
| | 100% | 51.40 | 103.71 | 5331.12 | 6961 | 6.141 | 20162 | 3.78 | | |
| | 25*10 | 40% | 50.76 | 11.32 | 574.45 | 3036 | 1.265 | 4009 | 6.98 | 103°C |
| | | 45% | 50.73 | 14.62 | 741.62 | 3354 | 1.540 | 4934 | 6.65 | |
| | | 50% | 50.70 | 18.57 | 941.65 | 3671 | 1.845 | 5961 | 6.33 | |
| | | 55% | 50.66 | 23.27 | 1178.59 | 3991 | 2.181 | 7090 | 6.02 | |
| | | 60% | 50.61 | 29.22 | 1478.71 | 4323 | 2.566 | 8371 | 5.66 | |
| | | 65% | 50.56 | 35.72 | 1805.87 | 4656 | 2.977 | 9728 | 5.39 | |
| | | 70% | 50.49 | 43.55 | 2198.86 | 4981 | 3.432 | 11230 | 5.11 | |
| | | 75% | 50.42 | 52.54 | 2649.06 | 5298 | 3.915 | 12795 | 4.83 | |
| | | 80% | 50.33 | 63.06 | 3173.78 | 5607 | 4.444 | 14504 | 4.57 | |
| | | 85% | 50.25 | 73.45 | 3690.78 | 5903 | 4.976 | 16192 | 4.39 | |
| 90% | | 50.15 | 85.27 | 4276.32 | 6178 | 5.516 | 17898 | 4.19 | | |
| 100% | 49.94 | 111.85 | 5585.29 | 6699 | 6.669 | 21251 | 3.80 | | | |

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
(Date above based on benchtest are for reference only, comparion with that of other motor types is not recommended.)

| Type | Propeller | Throttle | Voltage (V) | Current (A) | Power (W) | RPM | Torque (N*m) | Thrust (g) | Efficiency (g/W) | Operating Temperature (°C) |
|------|-----------|----------|-------------|-------------|-----------|------|--------------|------------|------------------|----------------------------|
| | 23*10 | 40% | 44.65 | 13.76 | 614.47 | 3395 | 1.144 | 3792 | 6.17 | 76°C |
| | | 45% | 44.63 | 16.60 | 740.87 | 3668 | 1.315 | 4456 | 6.01 | |
| | | 50% | 44.59 | 20.40 | 909.84 | 3968 | 1.542 | 5269 | 5.79 | |
| | | 55% | 44.55 | 25.49 | 1135.72 | 4299 | 1.840 | 6257 | 5.51 | |
| | | 60% | 44.51 | 30.87 | 1373.99 | 4636 | 2.130 | 7239 | 5.27 | |
| | | 65% | 44.44 | 38.26 | 1700.55 | 4996 | 2.496 | 8440 | 4.96 | |
| | | 70% | 44.39 | 45.85 | 2034.96 | 5356 | 2.878 | 9698 | 4.77 | |
| | | 75% | 44.31 | 55.34 | 2451.98 | 5693 | 3.291 | 11099 | 4.53 | |
| | | 80% | 44.23 | 65.43 | 2893.81 | 6029 | 3.713 | 12534 | 4.33 | |
| | | 85% | 44.14 | 76.14 | 3360.88 | 6332 | 4.138 | 13917 | 4.14 | |
| | | 90% | 44.04 | 87.97 | 3874.09 | 6640 | 4.570 | 15335 | 3.96 | |
| | | 100% | 43.83 | 113.82 | 4988.91 | 7192 | 5.459 | 18097 | 3.63 | |

Continued below

| | | | | | | | | | | |
|-----------------|-------|-------|--------|---------|---------|-------|-------|-------|------|-------|
| AT8025 KV190 | 24*10 | 40% | 44.64 | 14.36 | 641.22 | 3280 | 1.253 | 4128 | 6.44 | 89°C |
| | | 45% | 44.61 | 17.95 | 800.65 | 3577 | 1.490 | 4935 | 6.16 | |
| | | 50% | 44.57 | 22.64 | 1009.32 | 3907 | 1.779 | 5926 | 5.87 | |
| | | 55% | 44.53 | 28.27 | 1258.85 | 4245 | 2.111 | 7051 | 5.60 | |
| | | 60% | 44.47 | 34.92 | 1552.99 | 4589 | 2.473 | 8272 | 5.33 | |
| | | 65% | 44.40 | 43.04 | 1911.10 | 4939 | 2.883 | 9697 | 5.07 | |
| | | 70% | 44.33 | 51.91 | 2301.24 | 5284 | 3.320 | 11149 | 4.85 | |
| | | 75% | 44.25 | 62.52 | 2766.66 | 5624 | 3.783 | 12724 | 4.60 | |
| | | 80% | 44.15 | 74.00 | 3267.27 | 5943 | 4.266 | 14331 | 4.39 | |
| | | 85% | 44.05 | 86.23 | 3798.70 | 6234 | 4.752 | 15898 | 4.19 | |
| | | 90% | 43.94 | 100.17 | 4401.00 | 6528 | 5.258 | 17553 | 3.99 | |
| | | 100% | 43.70 | 129.08 | 5641.04 | 7057 | 6.275 | 20614 | 3.65 | |
| | 25*10 | 40% | 44.04 | 17.08 | 752.36 | 3224 | 1.490 | 4826 | 6.41 | 104°C |
| | | 45% | 43.96 | 20.80 | 914.30 | 3479 | 1.740 | 5645 | 6.17 | |
| | | 50% | 43.86 | 25.28 | 1108.87 | 3752 | 2.030 | 6597 | 5.95 | |
| | | 55% | 43.72 | 31.41 | 1373.36 | 4070 | 2.400 | 7800 | 5.68 | |
| | | 60% | 43.56 | 38.60 | 1681.24 | 4391 | 2.800 | 9135 | 5.43 | |
| | | 65% | 43.21 | 46.87 | 2025.08 | 4690 | 3.210 | 10476 | 5.17 | |
| | | 70% | 43.03 | 56.31 | 2422.91 | 4991 | 3.680 | 11971 | 4.94 | |
| | | 75% | 42.78 | 66.76 | 2855.55 | 5276 | 4.150 | 13501 | 4.73 | |
| | | 80% | 42.53 | 78.10 | 3321.60 | 5541 | 4.640 | 15032 | 4.53 | |
| | | 85% | 42.28 | 89.86 | 3799.22 | 5801 | 5.130 | 16554 | 4.36 | |
| 90% | | 42.01 | 103.56 | 4350.59 | 6063 | 5.650 | 18203 | 4.18 | | |
| 100% | | 41.39 | 133.33 | 5518.71 | 6716 | 6.700 | 21549 | 3.85 | | |

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
(Data above based on benchtest are for reference only, comparison with that of other motor types is not recommended.)

Contents



Motor*1



Parts Bag*1

Please check that your package contains all the above items before use, if something is missing, please contact online customer service or leave message to onlinesales@tmotor.com