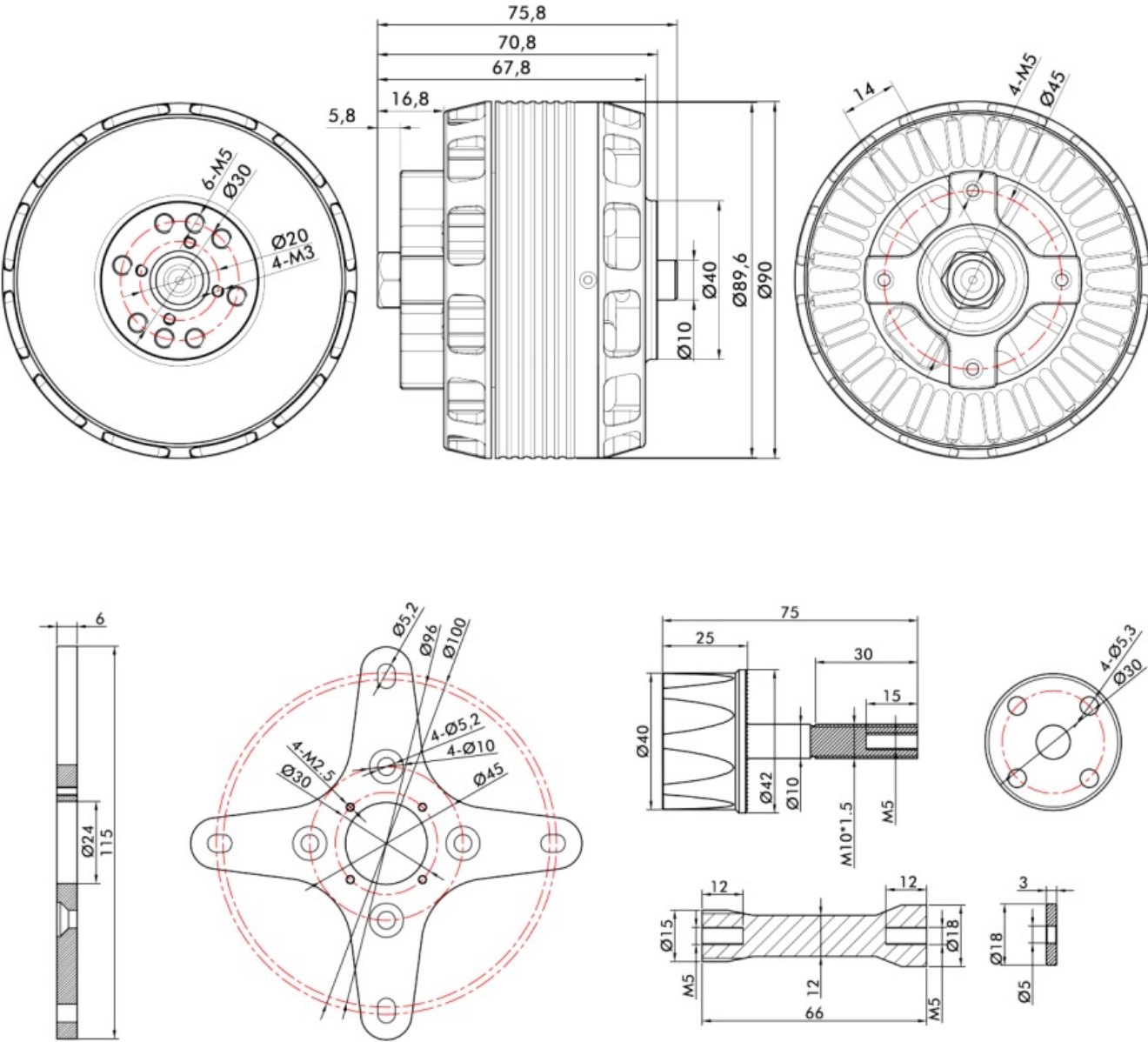




Specification

|                   |                         |                      |        |
|-------------------|-------------------------|----------------------|--------|
| Test Item         | KV180                   | Weight (Incl. Cable) | 865g   |
| Motor Dimensions  | Φ90*70.8mm              | Internal Resistance  | 16mΩ   |
| Lead              | Wound Wire Outlet 100mm | Configuration        | 24N28P |
| Shaft Diameter    | IN : 12mm<br>OUT : 10mm | Rated Voltage(LiPo)  | 10-14S |
| Idle Current(10V) | 4.6A                    | Peak Current(180s)   | 120A   |
| Max Power (180S)  | 5600W/14S               |                      |        |
| Test Item         | KV210                   | Weight (Incl. Cable) | 870g   |
| Motor Dimensions  | Φ90*70.8mm              | Internal Resistance  | 12mΩ   |
| Lead              | Wound Wire Outlet 100mm | Configuration        | 24N28P |
| Shaft Diameter    | IN : 12mm<br>OUT : 10mm | Rated Voltage(LiPo)  | 10-12S |

|                   |           |                    |      |
|-------------------|-----------|--------------------|------|
| Idle Current(10V) | 5.3A      | Peak Current(180s) | 135A |
| Max Power (180S)  | 5500W/12S |                    |      |

Test Data

| Type            | Propeller | Throttle | Voltage (V) | Current (A) | Power (W) | RPM  | Torque (N*m) | Thrust (g) | Efficiency (g/W) | Operating Temperature (°C) |
|-----------------|-----------|----------|-------------|-------------|-----------|------|--------------|------------|------------------|----------------------------|
| AT8020<br>KV180 | 23*10     | 40%      | 44.40       | 9.68        | 429.80    | 3030 | 0.850        | 2451       | 5.70             | 63°C                       |
|                 |           | 45%      | 44.53       | 12.54       | 558.40    | 3360 | 1.060        | 3169       | 5.70             |                            |
|                 |           | 50%      | 44.45       | 15.97       | 709.90    | 3690 | 1.300        | 3962       | 5.60             |                            |
|                 |           | 55%      | 44.42       | 19.37       | 860.40    | 3990 | 1.530        | 4782       | 5.60             |                            |
|                 |           | 60%      | 44.06       | 25.00       | 1101.50   | 4350 | 1.860        | 5849       | 5.30             |                            |
|                 |           | 65%      | 44.01       | 30.35       | 1335.70   | 4680 | 2.160        | 6880       | 5.20             |                            |
|                 |           | 70%      | 43.66       | 35.97       | 1570.50   | 4980 | 2.480        | 7968       | 5.10             |                            |
|                 |           | 75%      | 43.72       | 43.17       | 1887.40   | 5280 | 2.810        | 9075       | 4.80             |                            |
|                 |           | 80%      | 43.45       | 50.77       | 2206.00   | 5580 | 3.150        | 10163      | 4.60             |                            |
|                 |           | 90%      | 42.82       | 68.97       | 2953.30   | 6090 | 3.900        | 12514      | 4.20             |                            |
|                 |           | 100%     | 42.31       | 89.84       | 3801.10   | 6660 | 4.710        | 14996      | 3.90             |                            |
|                 | 24*10     | 40%      | 44.48       | 10.59       | 471.00    | 3000 | 0.980        | 2844       | 6.00             | 77°C                       |
|                 |           | 45%      | 44.45       | 13.91       | 618.30    | 3330 | 1.240        | 3681       | 6.00             |                            |
|                 |           | 50%      | 44.62       | 17.67       | 788.40    | 3660 | 1.500        | 4553       | 5.80             |                            |
|                 |           | 55%      | 43.99       | 22.01       | 968.20    | 3930 | 1.770        | 5427       | 5.60             |                            |
|                 |           | 60%      | 44.00       | 27.49       | 1209.60   | 4320 | 2.120        | 6615       | 5.50             |                            |
|                 |           | 65%      | 43.79       | 33.26       | 1456.50   | 4590 | 2.460        | 7739       | 5.30             |                            |
|                 |           | 70%      | 43.67       | 40.37       | 1763.00   | 4920 | 2.850        | 8992       | 5.10             |                            |
|                 |           | 75%      | 43.62       | 48.29       | 2106.40   | 5190 | 3.210        | 10215      | 4.80             |                            |
|                 |           | 80%      | 43.19       | 56.56       | 2442.80   | 5490 | 3.580        | 11447      | 4.70             |                            |
|                 |           | 90%      | 42.50       | 76.01       | 3230.40   | 6000 | 4.380        | 13980      | 4.30             |                            |
|                 |           | 100%     | 41.97       | 102.08      | 4284.30   | 6510 | 5.310        | 16889      | 3.90             |                            |
|                 | 25*10     | 40%      | 44.68       | 11.61       | 518.70    | 2970 | 1.140        | 3277       | 6.30             | 93°C                       |
|                 |           | 45%      | 44.31       | 15.40       | 682.40    | 3330 | 1.440        | 4226       | 6.20             |                            |
|                 |           | 50%      | 44.35       | 19.36       | 858.60    | 3600 | 1.720        | 5154       | 6.00             |                            |
|                 |           | 55%      | 44.16       | 24.25       | 1070.90   | 3870 | 2.010        | 6120       | 5.70             |                            |
|                 |           | 60%      | 44.07       | 30.09       | 1326.10   | 4170 | 2.370        | 7307       | 5.50             |                            |
|                 |           | 65%      | 43.72       | 37.41       | 1635.60   | 4500 | 2.810        | 8699       | 5.30             |                            |
|                 |           | 70%      | 43.77       | 45.69       | 1999.90   | 4830 | 3.230        | 10085      | 5.00             |                            |
|                 |           | 75%      | 43.26       | 53.95       | 2333.90   | 5100 | 3.620        | 11455      | 4.90             |                            |



|                                                                                                                                                                                                              |       |      |       |        |         |      |       |       |      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|--------|---------|------|-------|-------|------|-----|
| AT8020<br>KV210                                                                                                                                                                                              |       | 80%  | 42.40 | 68.72  | 2913.70 | 6450 | 3.510 | 11630 | 4.00 | HOT |
|                                                                                                                                                                                                              |       | 90%  | 42.04 | 90.18  | 3791.20 | 7020 | 4.290 | 14129 | 3.70 |     |
|                                                                                                                                                                                                              |       | 100% | 41.19 | 118.95 | 4899.60 | 7620 | 5.180 | 16950 | 3.50 |     |
|                                                                                                                                                                                                              | 23*10 | 40%  | 44.20 | 14.08  | 622.30  | 3510 | 1.160 | 3301  | 5.30 |     |
|                                                                                                                                                                                                              |       | 45%  | 43.95 | 18.53  | 814.40  | 3900 | 1.430 | 4221  | 5.20 |     |
|                                                                                                                                                                                                              |       | 50%  | 43.74 | 23.48  | 1027.00 | 4200 | 1.710 | 5160  | 5.00 |     |
|                                                                                                                                                                                                              |       | 55%  | 43.81 | 29.53  | 1293.70 | 4590 | 2.070 | 6357  | 4.90 |     |
|                                                                                                                                                                                                              |       | 60%  | 43.56 | 38.02  | 1656.20 | 4980 | 2.450 | 7650  | 4.60 |     |
|                                                                                                                                                                                                              |       | 65%  | 43.40 | 45.26  | 1964.30 | 5340 | 2.830 | 8928  | 4.50 |     |
|                                                                                                                                                                                                              |       | 70%  | 43.06 | 55.18  | 2376.10 | 5640 | 3.220 | 10211 | 4.30 |     |
|                                                                                                                                                                                                              |       | 75%  | 42.57 | 64.34  | 2739.00 | 5970 | 3.670 | 11594 | 4.20 |     |
|                                                                                                                                                                                                              |       | 80%  | 42.37 | 77.79  | 3296.00 | 6300 | 4.090 | 12942 | 3.90 |     |
|                                                                                                                                                                                                              |       | 90%  | 41.64 | 103.74 | 4319.70 | 6870 | 4.910 | 15486 | 3.60 |     |
|                                                                                                                                                                                                              |       | 100% | 41.04 | 131.38 | 5391.80 | 7350 | 5.850 | 18227 | 3.40 |     |
| Note: Motor temperature is motor surface temperature at 100% throttle running 3mins.<br>(Date above based on benchtest are for reference only, comparion with that of other motor types is not recommended.) |       |      |       |        |         |      |       |       |      |     |

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 " [onlinesales@ligpower.com](mailto:onlinesales@ligpower.com) " in time.