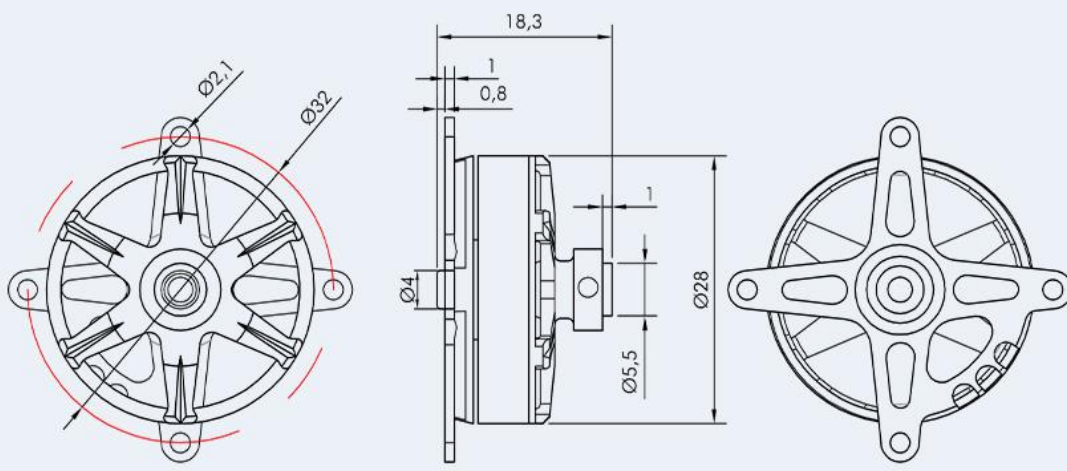


**T-Motor AS2304**

**Product Drawing**



**Specifications**

|                   |                           |                      |        |
|-------------------|---------------------------|----------------------|--------|
| Test Item         | KV1500 Short Shaft        | Weight (Incl. Cable) | 20g    |
| Motor Dimensions  | Short Shaft<br>Φ28*16.5mm | Internal Resistance  | 236mΩ  |
| Lead              | Enameled Wire 40mm        | Configuration        | 12N14P |
| Shaft Diameter    | IN : 4mm<br>OUT : 3mm     | Rated Voltage(Lipo)  | 2-3S   |
| Idle Current(10V) | 0.35A                     | Peak Current(180s)   | 9A     |
| Max. Power(180s)  | 72W                       | Recommendation       | /      |
| Test Item         | KV1800 Short Shaft        | Weight (Incl. Cable) | 20g    |
| Motor Dimensions  | Short Shaft<br>Φ28*16.5mm | Internal Resistance  | 138mΩ  |
| Lead              | Enameled Wire 40mm        | Configuration        | 12N14P |
| Shaft Diameter    | IN : 4mm<br>OUT : 3mm     | Rated Voltage(Lipo)  | 2-3S   |
| Idle Current(10V) | 0.5A                      | Peak Current(180s)   | 16A    |
| Max. Power(180s)  | 168W                      | Recommendation       | /      |
| Test Item         | KV2300 Short Shaft        | Weight (Incl. Cable) | 20g    |
| Motor Dimensions  | Short Shaft<br>Φ28*16.5mm | Internal Resistance  | 88mΩ   |
| Lead              | Enameled Wire 40mm        | Configuration        | 12N14P |
| Shaft Diameter    | IN : 4mm<br>OUT : 3mm     | Rated Voltage(Lipo)  | 2-3S   |
| Idle Current(10V) | 0.75A                     | Peak Current(180s)   | 16A    |
| Max. Power(180s)  | 108W                      | Recommendation       | /      |

**Test Report**

| Type                      | Propeller | Throttle | Voltage (V) | Current (A) | Power (W) | RPM   | Torque (N*m) | Thrust (g) | Efficiency (g/W) | Operating Temperature (°C)   |
|---------------------------|-----------|----------|-------------|-------------|-----------|-------|--------------|------------|------------------|------------------------------|
| AS2304 Short Shaft KV1500 | GWS 7035  | 40%      | 11.91       | 1.25        | 14.95     | 7980  | 0.014        | 134        | 8.99             | 68<br>(Ambient Temperature:) |
|                           |           | 45%      | 11.90       | 1.55        | 18.41     | 8518  | 0.016        | 152        | 8.28             |                              |
|                           |           | 50%      | 11.88       | 1.82        | 21.63     | 9018  | 0.017        | 171        | 7.91             |                              |
|                           |           | 55%      | 11.86       | 2.11        | 25.02     | 9427  | 0.019        | 192        | 7.68             |                              |
|                           |           | 60%      | 11.84       | 2.40        | 28.42     | 9762  | 0.021        | 210        | 7.40             |                              |
|                           |           | 65%      | 11.82       | 2.74        | 32.40     | 10203 | 0.023        | 232        | 7.15             |                              |
|                           |           | 70%      | 11.80       | 3.18        | 37.56     | 10740 | 0.025        | 257        | 6.85             |                              |
|                           |           | 75%      | 11.76       | 3.71        | 43.59     | 11346 | 0.028        | 289        | 6.63             |                              |
|                           |           | 80%      | 11.71       | 4.32        | 50.66     | 11931 | 0.031        | 322        | 6.35             |                              |
|                           |           | 90%      | 11.61       | 5.84        | 67.81     | 13098 | 0.037        | 396        | 5.85             |                              |
|                           | 100%      | 11.59    | 6.08        | 70.44       | 13304     | 0.038 | 407          | 5.78       |                  |                              |
|                           | GWS 8040  | 40%      | 7.94        | 0.90        | 7.17      | 4454  | 0.012        | 97         | 13.50            | 54<br>(Ambient Temperature:) |
|                           |           | 45%      | 7.93        | 1.15        | 9.13      | 4762  | 0.014        | 113        | 12.33            |                              |
|                           |           | 50%      | 7.92        | 1.44        | 11.43     | 5080  | 0.016        | 127        | 11.10            |                              |
|                           |           | 55%      | 7.90        | 1.76        | 13.87     | 5395  | 0.018        | 145        | 10.42            |                              |
|                           |           | 60%      | 7.88        | 2.15        | 16.94     | 5729  | 0.020        | 167        | 9.85             |                              |
|                           |           | 65%      | 7.86        | 2.63        | 20.64     | 6141  | 0.023        | 190        | 9.19             |                              |
|                           |           | 70%      | 7.83        | 3.20        | 25.06     | 6541  | 0.026        | 219        | 8.74             |                              |
|                           |           | 75%      | 7.80        | 3.77        | 29.44     | 6932  | 0.029        | 243        | 8.25             |                              |
|                           |           | 80%      | 7.77        | 4.41        | 34.30     | 7290  | 0.032        | 269        | 7.83             |                              |
| 90%                       |           | 7.69     | 5.91        | 45.42       | 7939      | 0.038 | 325          | 7.15       |                  |                              |
| 100%                      | 7.66      | 6.23     | 47.78       | 8087        | 0.039     | 336   | 7.04         |            |                  |                              |
|                           |           | 40%      | 7.92        | 1.05        | 8.29      | 3535  | 0.015        | 102        | 12.33            |                              |
|                           |           | 45%      | 7.90        | 1.44        | 11.43     | 5080  | 0.016        | 127        | 11.10            |                              |

Continued below

|          |      |      |      |       |      |       |     |       |                               |
|----------|------|------|------|-------|------|-------|-----|-------|-------------------------------|
| GWS 9050 | 45%  | 7.90 | 1.41 | 11.12 | 3843 | 0.018 | 123 | 11.22 | 68<br>(Ambient Temperature:/) |
|          | 50%  | 7.87 | 1.83 | 14.45 | 4148 | 0.021 | 149 | 10.29 |                               |
|          | 55%  | 7.84 | 2.37 | 18.59 | 4492 | 0.024 | 173 | 9.31  |                               |
|          | 60%  | 7.81 | 3.01 | 23.51 | 4815 | 0.029 | 203 | 8.65  |                               |
|          | 65%  | 7.77 | 3.70 | 28.75 | 5123 | 0.033 | 232 | 8.06  |                               |
|          | 70%  | 7.72 | 4.51 | 34.82 | 5445 | 0.037 | 263 | 7.56  |                               |
|          | 75%  | 7.67 | 5.38 | 41.24 | 5727 | 0.041 | 294 | 7.13  |                               |
|          | 80%  | 7.62 | 6.17 | 46.96 | 5988 | 0.044 | 322 | 6.86  |                               |
|          | 90%  | 7.42 | 7.89 | 58.57 | 6402 | 0.050 | 369 | 6.30  |                               |
|          | 100% | 7.40 | 8.10 | 59.95 | 6428 | 0.051 | 374 | 6.23  |                               |

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)    |
|---------------------------|-----------|----------|-------------|-------------|-----------|-------|--------------|------------|-------------------------------|-------------------------------|
| AS2304 Short Shaft KV1800 | GWS 8040  | 40%      | 11.83       | 2.63        | 31.06     | 6952  | 0.027        | 229        | 7.37                          | 65<br>(Ambient Temperature:/) |
|                           |           | 45%      | 11.77       | 3.32        | 39.04     | 7492  | 0.031        | 267        | 6.83                          |                               |
|                           |           | 50%      | 11.63       | 4.14        | 48.18     | 7692  | 0.035        | 307        | 6.37                          |                               |
|                           |           | 55%      | 11.50       | 5.11        | 58.71     | 8177  | 0.040        | 351        | 5.98                          |                               |
|                           |           | 60%      | 11.42       | 6.20        | 70.83     | 8739  | 0.046        | 399        | 5.63                          |                               |
|                           |           | 65%      | 11.31       | 7.39        | 83.55     | 9222  | 0.051        | 445        | 5.33                          |                               |
|                           |           | 70%      | 11.19       | 8.72        | 97.51     | 9655  | 0.056        | 494        | 5.06                          |                               |
|                           |           | 75%      | 11.07       | 10.14       | 112.28    | 10075 | 0.061        | 539        | 4.80                          |                               |
|                           |           | 80%      | 11.01       | 11.67       | 128.43    | 10451 | 0.066        | 582        | 4.53                          |                               |
|                           |           | 90%      | 10.85       | 14.88       | 161.49    | 11082 | 0.076        | 665        | 4.12                          |                               |
|                           | 100%      | 10.93    | 15.22       | 166.27      | 11128     | 0.077 | 665          | 4.00       |                               |                               |
|                           | GWS 9050  | 40%      | 7.87        | 1.83        | 14.43     | 4059  | 0.019        | 136        | 9.41                          | 56<br>(Ambient Temperature:/) |
|                           |           | 45%      | 7.83        | 2.37        | 18.54     | 4407  | 0.022        | 162        | 8.74                          |                               |
|                           |           | 50%      | 7.78        | 3.07        | 23.87     | 4757  | 0.026        | 195        | 8.17                          |                               |
|                           |           | 55%      | 7.72        | 3.93        | 30.34     | 5114  | 0.031        | 229        | 7.54                          |                               |
|                           |           | 60%      | 7.65        | 4.89        | 37.38     | 5470  | 0.036        | 264        | 7.06                          |                               |
|                           |           | 65%      | 7.57        | 5.95        | 45.05     | 5795  | 0.041        | 300        | 6.66                          |                               |
|                           |           | 70%      | 7.50        | 6.99        | 52.38     | 6105  | 0.045        | 333        | 6.36                          |                               |
|                           |           | 75%      | 7.42        | 8.22        | 60.99     | 6394  | 0.050        | 370        | 6.06                          |                               |
|                           |           | 80%      | 7.34        | 9.41        | 69.04     | 6658  | 0.053        | 399        | 5.77                          |                               |
| 90%                       |           | 7.10     | 11.91       | 84.55       | 7061      | 0.060 | 450          | 5.32       |                               |                               |
| GWS 1060                  | 40%       | 7.83     | 2.13        | 16.66       | 3264      | 0.023 | 146          | 8.78       | 68<br>(Ambient Temperature:/) |                               |
|                           | 45%       | 7.77     | 3.00        | 23.29       | 3608      | 0.028 | 178          | 7.64       |                               |                               |
|                           | 50%       | 7.72     | 3.69        | 28.48       | 3935      | 0.033 | 212          | 7.45       |                               |                               |
|                           | 55%       | 7.47     | 4.68        | 34.92       | 4143      | 0.038 | 241          | 6.89       |                               |                               |
|                           | 60%       | 7.34     | 5.74        | 42.12       | 4402      | 0.042 | 271          | 6.44       |                               |                               |
|                           | 65%       | 7.36     | 7.01        | 51.56       | 4684      | 0.047 | 306          | 5.93       |                               |                               |
|                           | 70%       | 7.28     | 8.28        | 60.26       | 4901      | 0.053 | 336          | 5.58       |                               |                               |
|                           | 75%       | 7.20     | 9.59        | 69.02       | 5111      | 0.057 | 364          | 5.27       |                               |                               |
|                           | 80%       | 7.11     | 10.92       | 77.63       | 5277      | 0.062 | 390          | 5.02       |                               |                               |
|                           | 90%       | 6.93     | 13.70       | 94.90       | 5574      | 0.068 | 436          | 4.60       |                               |                               |
| 100%                      | 6.90      | 13.73    | 94.77       | 5549        | 0.067     | 429   | 4.53         |            |                               |                               |

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)    |
|---------------------------|-----------|----------|-------------|-------------|-----------|------|--------------|------------|------------------|-------------------------------|
| AS2304 Short Shaft KV2300 | GWS 8040  | 40%      | 7.53        | 2.66        | 20.01     | 5602 | 0.019        | 158        | 7.88             | 87<br>(Ambient Temperature:/) |
|                           |           | 45%      | 7.61        | 3.32        | 25.28     | 6123 | 0.023        | 188        | 7.42             |                               |
|                           |           | 50%      | 7.55        | 3.97        | 30.00     | 6513 | 0.026        | 216        | 7.19             |                               |
|                           |           | 55%      | 7.23        | 4.62        | 33.39     | 6762 | 0.029        | 237        | 7.08             |                               |
|                           |           | 60%      | 7.14        | 5.55        | 39.62     | 7184 | 0.032        | 265        | 6.68             |                               |
|                           |           | 65%      | 7.05        | 6.51        | 45.90     | 7589 | 0.036        | 298        | 6.49             |                               |
|                           |           | 70%      | 6.98        | 7.71        | 53.82     | 8017 | 0.039        | 333        | 6.18             |                               |
|                           |           | 75%      | 7.03        | 9.19        | 64.60     | 8512 | 0.044        | 374        | 5.79             |                               |
|                           |           | 80%      | 7.11        | 10.98       | 78.02     | 9021 | 0.050        | 425        | 5.44             |                               |
|                           |           | 90%      | 7.09        | 14.64       | 103.86    | 9817 | 0.059        | 507        | 4.88             |                               |
| 100%                      | 7.08      | 15.20    | 107.63      | 9899        | 0.060     | 513  | 4.77         |            |                  |                               |

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.)

## Contents



Motor x 1



Parts Bag x 1

( 2.0\*20mm O ring\*2,M2\*5mm cross self tapping screw\*4  
10\*5.5\*7\*2.5mm Aluminum Prop Adapter\*1  
10\*5.5\*8\*2.5mm Aluminum Prop Adapter \*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](mailto:onlinesales@tmotor.com)