# Shenzhen XQPOWER Technology Co., LTD

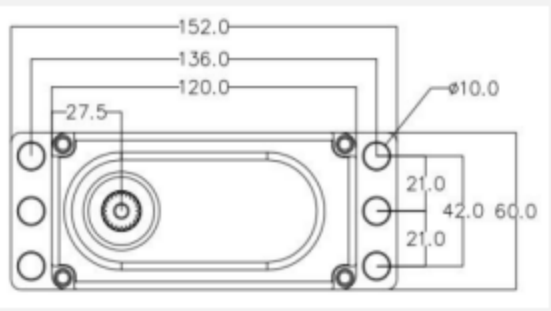
## Product Inspection Specification

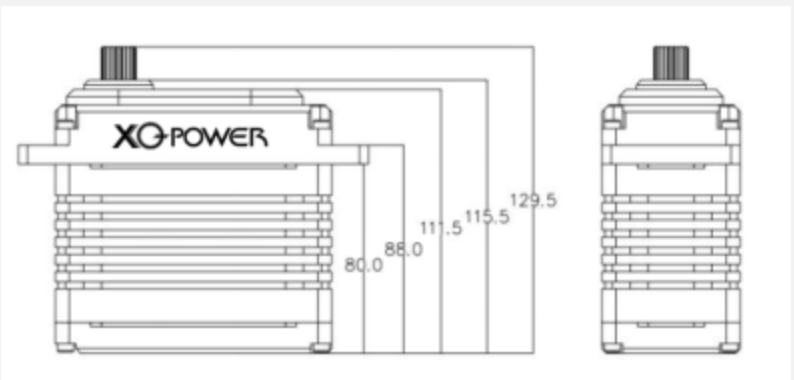
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| VER | X9_9750.02 |
| Page. | P.1 |
| Prepare Date | 20250222 |

| GSN | XQ-9S | Product Name | XQ-POWER 30V1000kg-cm Brushless Servo | Model | XQ-S9750D | Material | CNC all-metal case |
|---|---|---|---|---|---|---|---|

**Process flow** | **CNC / industry testing torque**

SIZE OF THE DRAWINGS




**The Drawings**

**Photos1**




**Photos2**




| Control Specifications | | |
|---|---|---|
| NO. | Standard Test Environment | |
| 1-1 | Temperature range | 25℃±5℃ |
| 1-2 | Humidity range | 65%±10% |
| NO. | Apply Environmental Condition | |
| 2-1 | Storage Temperature Range | -30℃ ~ 70℃ |
| 2-2 | Operating Temperature Range | -30℃ ~ 60℃ |
| NO. | Mechanical Specification | |
| 3-1 | Servo Dimensions | 120*60*111.5 mm |
| 3-2 | Servo Weight | 1750g |
| 3-3 | Servo Gear | Steel Gear |
| 3-4 | Angle of limit | No Limit |
| 3-5 | Servo Bearing | 10 Ball bearings |
| 3-6 | Output force shaft | 25T-φ14.98mm |
| 3-7 | Servo arm | Metal |
| 3-8 | Case Material | Aluminium CNC |
| 3-9 | Servo line | Socket(Wire IM separately to buy) |
| 3-10 | Built-in motor | Brushless motor |
| 3-11 | Splash water resistance | Yes |
| Electrical Specification | | |
| NO. | Test Operating Voltage Range | |
| 4-1 | Work Voltage | 24 V |
| 4-2 | No load speed | 0.35 sec/60° |
| 4-3 | Runnig current (no load) | 400 mA |
| 4-4 | Peak stall torque | 850 kg.cm |
| 4-5 | Stall current | 21 A |
| | Work Voltage | 28 V |
| 4-6 | No load speed | 0.28 sec/60° |
| 4-7 | Runnig current (no load) | 460 mA |
| 4-8 | Peak stall torque | 920 kg.cm |
| 4-9 | Stall current | 25 A |
| | Work Voltage | 30 V |
| 4-10 | No load speed | 0.25 sec/60° |
| 4-11 | Runnig current (no load) | 500 mA |
| 4-12 | Peak stall torque | 980 kg.cm |
| 4-13 | Stall current | 26.5 A |

AQL

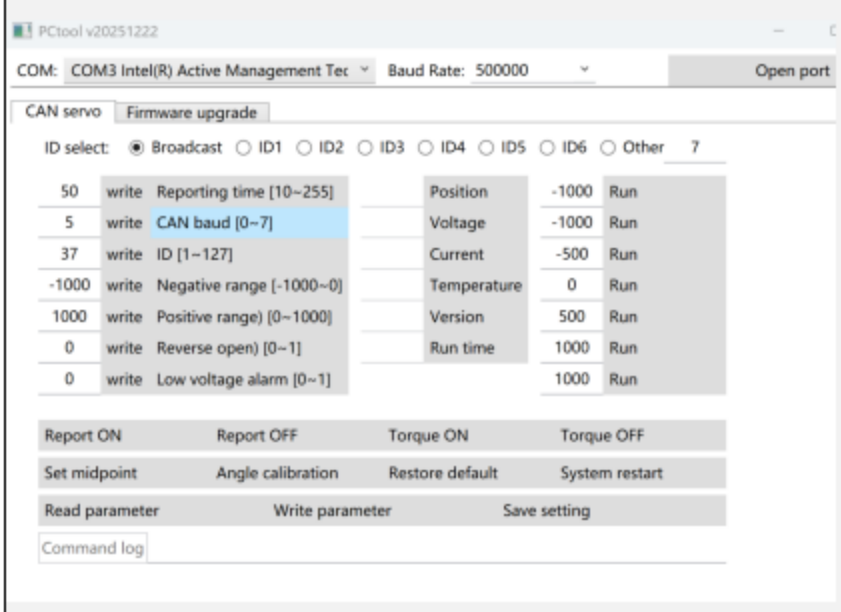
| Make table | CHECK | APPROVE |
|---|---|---|
| MR.ZHONG | MR.LIU | Manager.ZHOU |



**Control Specification**

**Test display diagram**

**Photos1**




**EMPHASIS**

| NO. | Item | Specification |
|---|---|---|
| 5-1 | Command signal | PWM |
| 5-2 | Amplifier type | Digital Controller |
| 5-3 | Pulse width range | 500~2500 μsec customizable |
| 5-4 | Neutral position | 1500 μsec customizable |
| 5-5 | Running degree | 360° (when1000~2000 μsec) customization |
| 5-6 | Dead band width | 3 μsec |
| 5-7 | Rotating direction | CCW (when 1000~2000 μsec) customizable |

| Appearance inspection | |
|---|---|
| NO. | QC details |
| 5-7 | Material qualified |
| 5-8 | Gear structure qualified |
| 5-9 | Function qualified |
| 5-10 | Use data qualified |
| 5-11 | Pass the test |

AQL

**Accessories**

**Photos1**



| NO. | Other |
|---|---|
| 6-1 | |
| 6-2 | |
| 6-3 | |
| 6-4 | |

| Other Accessories | |
|---|---|
| 7-1 | Plastic arm bag |
| 7-2 | Screw |
| 7-3 | Metal arm (additional purchase) |



**Reference opinions of all departments: Agree**

| Make table | CHECK | APPROVE |
|---|---|---|
| MR.ZHONG | MR.LIU | Manager.ZHOU |