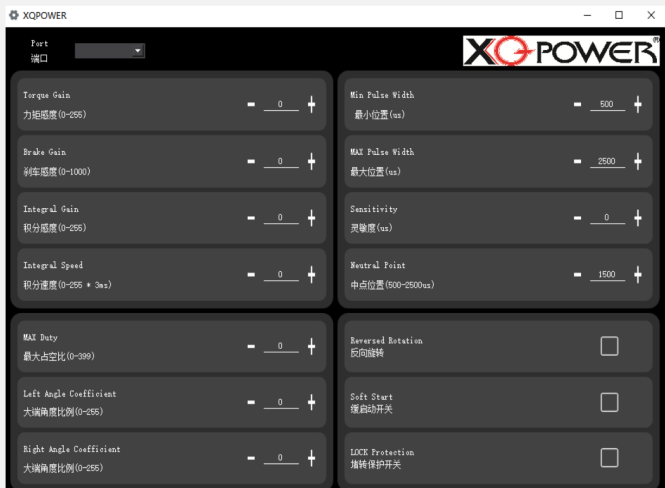


|                                      |  |                               |  |                 |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
|--------------------------------------|--|-------------------------------|--|-----------------|--|----------------------------------------------------------|--|-------------------------------|--|------------------------------|--|--------------|--|--------------------|--|------|--|--------------------------|--|--------------|--|--|--|
| Shenzhen XQPOWER Technology Co., LTD |  |                               |  |                 |  | DOCUMENT NO                                              |  | N/D.2020.6.25                 |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  | VER                                                      |  | X81_8125.02                   |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  | Page.                                                    |  | P.1                           |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  | Prepare Date                                             |  | 20200630                      |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| GSN                                  |  | XQ-8S                         |  | Product Name    |  | XQ-POWER 8.4V20kg-cm<br>Hight Voltage Brushless<br>Servo |  | Model                         |  | XQ-BLS8125D                  |  | Material     |  | CNC all-metal case |  |      |  |                          |  |              |  |  |  |
| Process flow                         |  |                               |  |                 |  |                                                          |  | CNC / industry testing torque |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| SIZE OF THE DRAWINGS                 |  |                               |  |                 |  |                                                          |  | Control Specifications        |  |                              |  |              |  |                    |  | AQL  |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | NO.                           |  | Standard Test Environment    |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 1-1                                  |  | Temperature range             |  | 25°C±5°C        |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 1-2                                  |  | Humidity range                |  | 65%±10%         |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| NO.                                  |  | Apply Environmental Condition |  |                 |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 2-1                                  |  | Storage Temperature Range     |  | -20°C ~ 70°C    |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 2-2                                  |  | Operating Temperature Range   |  | -15°C ~ 65°C    |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| NO.                                  |  | Mechanical Specification      |  |                 |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-1                                  |  | Servo Dimensions              |  | 20*40*38.4 mm   |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-2                                  |  | Servo Weight                  |  | 77g             |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-3                                  |  | Servo Gear                    |  | Stainless Steel |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-4                                  |  | Angle of limit                |  | 210°            |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-5                                  |  | Servo Bearing                 |  | 2 Ball bearings |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-6                                  |  | Output force shaft            |  | 25T-φ5.94mm     |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-7                                  |  | Servo arm                     |  | Plastic, POM    |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-8                                  |  | Case Material                 |  | Aluminium CNC   |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-9                                  |  | Servo line                    |  | 300mm           |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-10                                 |  | Built-in motor                |  | Brushless motor |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 3-11                                 |  | Splash water resistance       |  | Yes             |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| The Drawings                         |  |                               |  |                 |  |                                                          |  | Electrical Specification      |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | NO.                           |  | Test Operating Voltage Range |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| Photos1                              |  |                               |  |                 |  |                                                          |  | 4-1                           |  | Work Voltage                 |  | 6.0 V        |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-2                           |  | No load speed                |  | 0.12 sec/60° |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-3                           |  | Runnig current (no load)     |  | 300 mA       |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-4                           |  | Peak stall torque            |  | 18 kg.cm     |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-5                           |  | Stall current                |  | 2.8 A        |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  |                               |  | Work Voltage                 |  | 7.4 V        |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-6                           |  | No load speed                |  | 0.09 sec/60° |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-7                           |  | Runnig current (no load)     |  | 350 mA       |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-8                           |  | Peak stall torque            |  | 22 kg.cm     |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | 4-9                           |  | Stall current                |  | 3.5 A        |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  |                               |  | Work Voltage                 |  | 8.4 V        |  |                    |  |      |  |                          |  |              |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  | Photos2                       |  |                              |  |              |  |                    |  | 4-10 |  | No load speed            |  | 0.07 sec/60° |  |  |  |
|                                      |  |                               |  |                 |  |                                                          |  |                               |  |                              |  |              |  |                    |  | 4-11 |  | Runnig current (no load) |  | 410 mA       |  |  |  |
| 4-12                                 |  | Peak stall torque             |  | 25 kg.cm        |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| 4-13                                 |  | Stall current                 |  | 4.0 A           |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| Make table                           |  | CHECK                         |  | APPROVE         |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |
| MR.ZHONG                             |  | MR.LIU                        |  | Manager.ZHOU    |  |                                                          |  |                               |  |                              |  |              |  |                    |  |      |  |                          |  |              |  |  |  |

|                                                                                                                   |                                 |        |              |                                                         |                       |                          |             |                                         |                    |  |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|--------------|---------------------------------------------------------|-----------------------|--------------------------|-------------|-----------------------------------------|--------------------|--|
| Shenzhen XQPOWER Technology Co., LTD                                                                              |                                 |        |              |                                                         |                       | DOCUMENT NO              |             | N/D.2020.6.25                           |                    |  |
|                                                                                                                   |                                 |        |              |                                                         |                       | VER                      |             | X81_8125.02                             |                    |  |
|                                                                                                                   |                                 |        |              |                                                         |                       | Page.                    |             | P.2                                     |                    |  |
|                                                                                                                   |                                 |        |              |                                                         |                       | Prepare Date             |             | 20200630                                |                    |  |
| GSN                                                                                                               |                                 | XQ-8S  | Product Name | XQ-POWER 8.4V20kg-cm<br>High Voltage Brushless<br>Servo |                       | Model                    | XQ-BLS8125D | Material                                | CNC all-metal case |  |
| Control Specification                                                                                             |                                 |        |              |                                                         |                       |                          |             |                                         |                    |  |
| Test display diagram                                                                                              |                                 |        |              |                                                         | EMPHASIS              |                          |             |                                         |                    |  |
| <div>Photos1</div> <div></div> |                                 |        |              |                                                         | NO.                   | Item                     |             | Specification                           |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 5-1                   | Command signal           |             | PWM                                     |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 5-2                   | Amplifier type           |             | Digital Controller                      |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 5-3                   | Pulse width range        |             | 800~2200 μsec                           |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 5-4                   | Neutral position         |             | 1500 μsec                               |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 5-5                   | Running degree           |             | 360° (when1000~2000 μsec) customization |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 5-6                   | Dead band width          |             | 1 μsec                                  |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 5-7                   | Rotating direction       |             | CCW(when 1000 ~2000 μsec)               |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 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            |             |                                         |                    |  |
|                                                                                                                   |                                 |        |              |                                                         | 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) |        |              |                                                         |                       |                          |             |                                         |                    |  |
| <div></div>                   |                                 |        |              |                                                         |                       |                          |             |                                         |                    |  |
| Reference opinions of all departments: Agree                                                                      |                                 |        |              |                                                         |                       |                          |             |                                         |                    |  |
| Make table                                                                                                        |                                 | CHECK  |              | APPROVE                                                 |                       |                          |             |                                         |                    |  |
| MR.ZHONG                                                                                                          |                                 | MR.LIU |              | Manager.ZHOU                                            |                       |                          |             |                                         |                    |  |