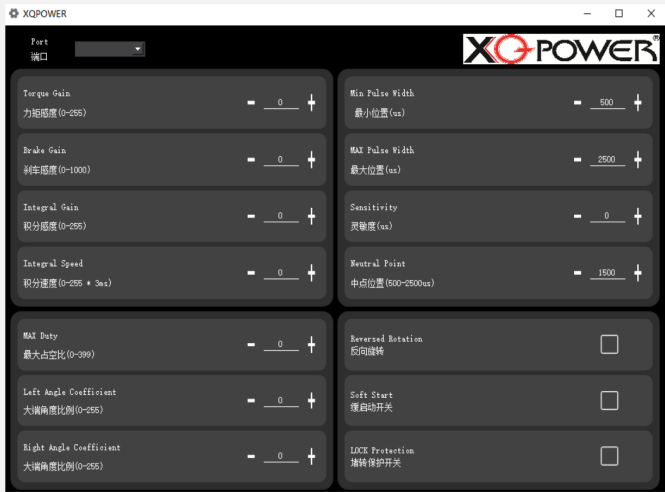


|                                      |  |                               |  |                 |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
|--------------------------------------|--|-------------------------------|--|-----------------|--------------|-------------------------------------------------------|---------------|-------------------------------|--|------------------------------|--|--------------|--|--------------------|--|-----|
| 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 Servo |               | Model                         |  | XQ-BLS8125DC                 |  | 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℃±5℃          |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
| 1-2                                  |  | Humidity range                |  | 65%±10%         |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
| NO.                                  |  | Apply Environmental Condition |  |                 |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
| 2-1                                  |  | Storage Temperature Range     |  | -20℃ ~ 70℃      |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
| 2-2                                  |  | Operating Temperature Range   |  | -15℃ ~ 65℃      |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
| 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      |  |                              |  |              |  |                    |  |     |
| Photos1                              |  |                               |  |                 |              |                                                       |               | NO.                           |  | Test Operating Voltage Range |  |              |  |                    |  |     |
|                                      |  |                               |  |                 |              |                                                       |               | 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           |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
| 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           |              |                                                       |               |                               |  |                              |  |              |  |                    |  |     |
| Photos2                              |  |                               |  |                 |              |                                                       |               | 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>Hight Voltage Brushless<br>Servo |                                                                                                 | Model                           | XQ-BLS8125DC                            | Material      | CNC all-metal case |  |
| Control Specification                                                                                             |  |       |              |                                                          |                                                                                                 |                                 |                                         |               |                    |  |
| Test display diagram                                                                                              |  |       |              |                                                          | EMPHASIS                                                                                        |                                 |                                         |               |                    |  |
| <div>Photos1</div> <div></div> |  |       |              |                                                          | NO.                                                                                             | Item                            | Specification                           |               |                    |  |
|                                                                                                                   |  |       |              |                                                          | 5-1                                                                                             | Command signal                  | PWM / CAN                               |               |                    |  |
|                                                                                                                   |  |       |              |                                                          | 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              |                                         |               |                    |  |
|                                                                                                                   |  |       |              |                                                          | Accessories                                                                                     |                                 |                                         |               |                    |  |
| <div>Photos1</div> <div></div> |  |       |              |                                                          | 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) |                                         |               |                    |  |
|                                                                                                                   |  |       |              |                                                          | <div></div> |                                 |                                         |               |                    |  |
|                                                                                                                   |  |       |              |                                                          | Reference opinions of all departments: Agree                                                    |                                 |                                         |               |                    |  |
|                                                                                                                   |  |       |              |                                                          | Make table                                                                                      |                                 | CHECK                                   |               | APPROVE            |  |
|                                                                                                                   |  |       |              |                                                          | MR.ZHONG                                                                                        |                                 | MR.LIU                                  |               | Manager.ZHOU       |  |