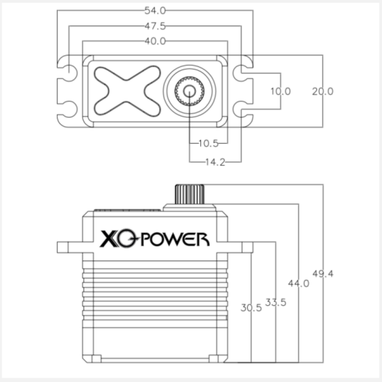
Shenzhen XQPOWER Technology Co., LTD	DOCUMENT NO	N/D.2025.07.01
Product Inspection Specification	VER	X8_8185.01
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	Prepare Date	20250701

GSN	XQ-8S	Product Name	XQ-POWER 8.4V85kg-cm Low Voltage Brushless Servo	Model	XQ-RS8185D	Material	CNC all-metal case

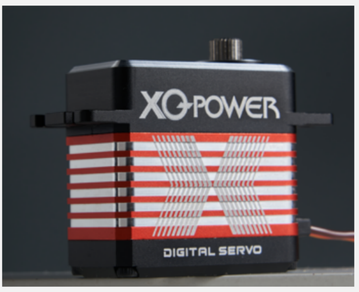
Process flow | **CNC / industry testing torque**

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	-20℃～70℃
2-2	Operating Temperature Range	-15℃～65℃
NO.	Mechanical Specification	
3-1	Servo Dimensions	20*40*44 mm
3-2	Servo Weight	92g
3-3	Servo Gear	Stainless Steel
3-4	Angle of limit	No Limit
3-5	Servo Bearing	2 Ball bearings
3-6	Output force shaft	25T-φ7.96mm
3-7	Servo arm	7075 Aluminium CNC
3-8	Case Material	Aluminium CNC
3-9	Servo line	300mm
3-10	Built-in motor	Brushless motor
3-11	Splash water resistance	Yes
	Electrical Specification	
NO.	Test Operating Voltage Range	
4-1	Work Voltage	**6.0 V**
4-2	No load speed	0.17 sec/60°
4-3	Runnig current (no load)	320 mA
4-4	Peak stall torque	42 kg.cm
4-5	Stall current	4.0 A
	Work Voltage	**7.4 V**
4-6	No load speed	0.14 sec/60°
4-7	Runnig current (no load)	370 mA
4-8	Peak stall torque	75 kg·cm
4-9	Stall current	5 A
	Work Voltage	**8.4 V**
4-10	No load speed	0.11 sec/60°
4-11	Runnig current (no load)	440 mA
4-12	Peak stall torque	85 kg.cm
4-13	Stall current	6.0 A

AQL

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

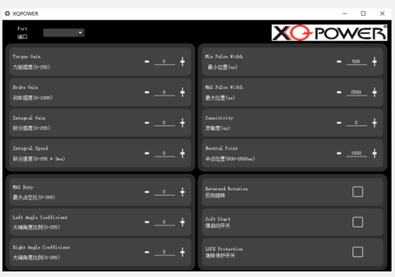
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GSN	XQ-8S	Product Name	XQ-POWER 8.4V85kg-cm Low Voltage Brushless Servo	Model	XQ-RS8185D	Material	CNC all-metal case

Control Specification

Test display diagram

Photos1



Accessories

Photos1



Reference opinions of all departments: Agree

EMPHASIS

NO.	Item	Specification
5-1	Command signal	RS485
5-2	Amplifier type	Digital Controller
5-3	Pulse width range	800～2200 μsec customisable
5-4	Neutral position	1500 μsec
5-5	Running degree	360° (when1000～2000 μsec) customization
5-6	Dead band width	2 μsec
5-7	Rotating direction	CCW (when1000～2000 μsec) customisable

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

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)



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