Shenzhen XQPOWER Technology Co., LTD

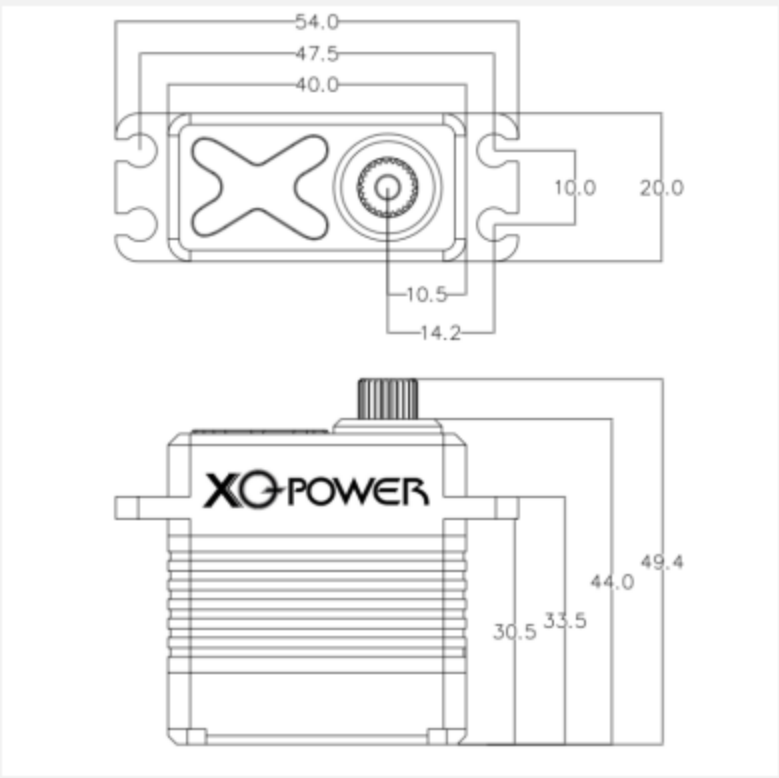
Product Inspection Specification

DOCUMENT NO	N/D.2025.07.01
VER	X8_8185.01
Page.	P.1
Prepare Date	20250701

GSN	XQ-8S	Product Name	XQ-POWER 16.8V85kg-cm Hight Voltage Brushless Servo	Model	XQ-BLS8185HVC	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	**8.4 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	**12.0 V**
4-6	No load speed	0.14 sec/60°
4-7	Runnig current (no load)	370 mA
4-8	Peak stall torque	60 kg.cm
4-9	Stall current	5 A
	Work Voltage	**16.8 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

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

AQL

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Control Specification

Test display diagram

Photos1



Accessories

Photos1



Reference opinions of all departments: Agree

EMPHASIS

NO.	Item	Specification
5-1	Command signal	CAN
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	
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)	



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