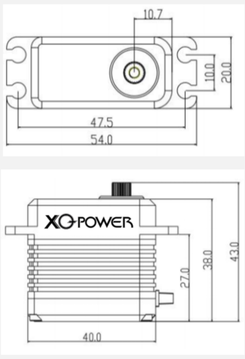
Shenzhen XQPOWER Technology Co., LTD	DOCUMENT NO	N/D.2024.10.17
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GSN	XQ-8H	Product Name	XQ-POWER 12V20kg-cm Hight Voltage Brushless Tail Servo	Model	XQ-BLS8120H	Material	CNC all-metal case

Process flow

CNC / industry testing torque

SIZE OF THE DRAWINGS

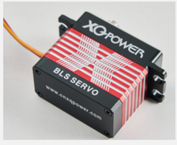


The Drawings

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*38 mm
3-2	Servo Weight	78g
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-φ5.96mm
3-7	Servo arm	Plastic, POM
3-8	Case Material	Aluminium CNC
3-9	Servo line	300mm 22AWG
3-10	Built-in motor	Brushless motor
3-11	Splash water resistance	Yes
	Electrical Specification	
NO.	**Test Operating Voltage Range**	
4-1	Work Voltage	**7.4 V**
4-2	No load speed	0.05 sec/60°
4-3	Runnig current (no load)	320 mA
4-4	Peak stall torque	12.5 kg.cm
4-5	Stall current	2.8 A
	Work Voltage	**8.4 V**
4-6	No load speed	0.044 sec/60°
4-7	Runnig current (no load)	370 mA
4-8	Peak stall torque	15 kg.cm
4-9	Stall current	3.5 A
	Work Voltage	**12 V**
4-10	No load speed	0.03 sec/60°
4-11	Runnig current (no load)	440 mA
4-12	Peak stall torque	20 kg.cm
4-13	Stall current	4.0 A

AQL

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

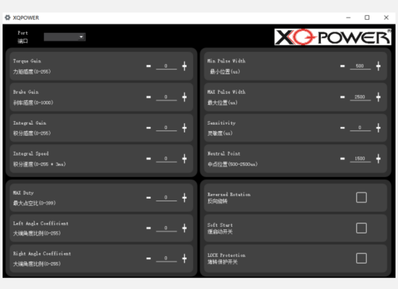
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GSN	XQ-8H	Product Name	XQ-POWER 12V20kg-cm Hight Voltage Brushless Tail Servo	Model	XQ-BLS8120H	Material	CNC all-metal case

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	510～1010 μsec
5-4	Neutral position	760 μsec
5-5	Running degree	360° (when1000～2000 μsec) Customization
5-6	Dead band width	1 μsec
5-7	Rotating direction	CCW(when 510～1010 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	

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