

Shenzhen XQPOWER Technology Co., LTD						DOCUMENT NO		N/D.20190809.5.3		
						VER		X8_8050.02		
						Page.		P.1		
						Prepare Date		20190810		
GSN		XQ-8S	Product Name	XQ-POWER 8.4V52kg-cm Hight Voltage Digital Servo		Model	XQ-S8050D	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*41 mm			
					3-2	Servo Weight	81g			
					3-3	Servo Gear	Stainless Steel			
					3-4	Angle of limit	210° or 360° continious			
					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	Coreless 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	0.158 sec/60°								
4-3	Runnig current (no load)	350 mA								
4-4	Peak stall torque	41 kg.cm								
4-5	Stall current	4.4 A								
	Work Voltage	7.4 V								
4-6	No load speed	0.132 sec/60°								
4-7	Runnig current (no load)	390 mA								
4-8	Peak stall torque	47 kg.cm								
4-9	Stall current	5.4 A								
	Work Voltage	8.4 V								
4-10	No load speed	0.108 sec/60°								
4-11	Runnig current (no load)	450 mA								
4-12	Peak stall torque	54 kg.cm								
4-13	Stall current	6.2 A								
Make table		CHECK		APPROVE						
MR.ZHONG		MR.LIU		Manager.ZHOU						

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Control Specification														
Test display diagram					EMPHASIS									
Photos1					NO.	Item		Specification		AQL				
					5-1	Command signal		PWM 50-333Hz						
					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)						
					5-6	Dead band width		1 μsec						
					5-7	Rotating direction		CCW(when 1000 ~2000μsec)						
					Appearance inspection									
					NO.	QC details								
					5-7	Material qualified								
					5-8	Gear structure qualified								
					5-9	Function qualified								
					5-10	Use data qualified								
					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)								
					Make table					CHECK		APPROVE		
					MR.ZHONG					MR.LIU		Manager.ZHOU		
					Reference opinions of all departments: Agree									