



## 产品规格书

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产品名称: 6V 30公斤模拟舵机 Product Name: 6V 30kg.cm Analog Servo

产品型号 Model No.FS6530M

## 1. 使用环境 Apply Environmental Condition

No.	Item	Specification
1-1	存储温度 Storage temperature range	-30℃~80℃
1-2	运行温度 Operating temperature range	-25℃~70℃

## 2. 测试环境 Standard Test Environment

No.	Item	Specification
2-1	温度 Temperature range	25℃ ±5℃
2-2	湿度 Humidity range	65%±10%

## 3. 机械特性 Mechanical Specification

No.	Item	Specification	
3-1	外形尺寸 Dimensions	59.5*29.1*49.5(mm)	2.34*1.15*1.95(in)
3-2	重量 Weight	137±7(g)	4.84±0.3(oz)
3-3	齿轮类型 Gear type	6metal gear	
3-4	齿轮减速比 Gear reduction ratio		
3-5	齿轮框量 Gear backlash	<1.5°	
3-6	极限角度 Limit angle	210° ±5°	
3-7	轴承 Bearing	2 ball bearings	
3-8	出力轴 Output shaft	φ 6.8*23T	
3-9	摆臂类型 Horn type	Complete series include 4 kinds of horns	
3-10	摆臂材料 Horn Material	工程塑料 POM plastic	
3-11	外壳材料 Case Material	PA66+GF	
3-12	连接线 Connector wire	#22*300mm±5 mm J style interface	
3-13	马达 Motor	碳刷马达 Carbon-brush-motor φ 23mm	
3-14	防水性能 Splash water resistance	防雨水 Rainwater resistance	

## 4. 电气特性 Electrical Specification (Function of the Performance)

No.	作工作电压 Operating Voltage Range	4.8V	6V
4-1	静态电流 Statical current(at stopped)	12.0mA±20%	16.0mA±20%
4-2	空载速度 No load speed	0.27±0.03(sec/60°)	0.22±0.03(sec/60°)
4-3	空载电流 Runnig current(at no load)	450mA±20%	570mA±20%
4-4	堵转扭矩 Stalling torque	24.5(kg-cm)	30.1(kg-cm)
		340.84oz-in±20%	418.74oz-in±20%
4-5	堵转电流 Stalling current	3±0.6(A)	3.8±0.8(A)
4-6	最大连续扭矩 Maximum continuos torque		
4-7	最大连续电流 Maxi mum continuos current		
4-8	恒流保护时间 the time of constant current protection	>180sec	>180sec



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5. 控制特性 Control Specification:

No.	Item	Specification
5-1	控制信号 Command signal	Pulse width modification
5-2	放大器类型 Amplifier type	Analog Controller
5-3	脉宽范围 impulse width range(standard)	900~2100 $\mu$ sec
5-4	中立位置 Neutral position	1500 $\mu$ sec
5-5	旋转角度 Rotation angle(standard)	CW $55 \pm 5^\circ$ CCW $55 \pm 5^\circ$
5-6	左/右转角差 Left/right rotation angle difference	Angle difference of R/L $< 10^\circ$
5-7	旋转方向 Rotation direction	Clockwise (when 900~2100 $\mu$ sec)
5-8	归中偏差 Back to middle deviation	$< 1.5^\circ$
5-9	盲区宽度 Dead band width	$< 10 \mu$ sec
5-10	分辨率 Resolution	$6 \pm 2 \mu$ sec

