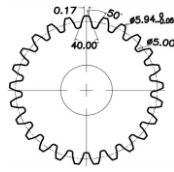
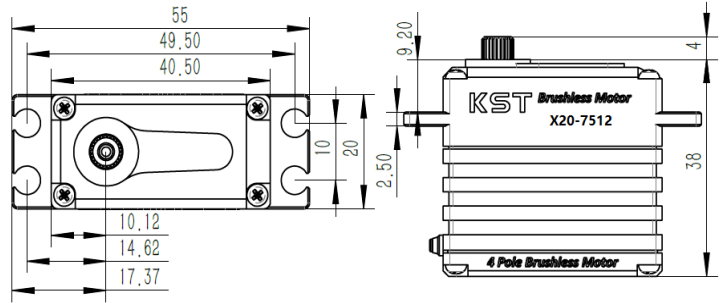


# X20-7512-200° Technical Specification



25T 6mm Output Shaft Spline

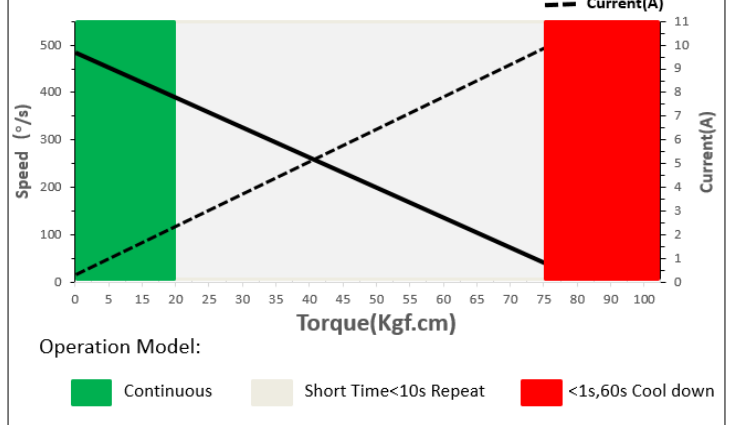


## 1. Operating Data

Rated Voltage	DC7.4V
Voltage Range	DC6.0V-8.4V
Torque	65Kgf.cm@6.0V
	75Kgf.cm@7.4V
	82Kgf.cm@8.4V
Speed	0.14sec/60°@6.0V
	0.12sec/60°@7.4V
	0.11sec/60°@8.4V
Stalling Current	8.80A@6.0V
	10.8A@7.4V
	12.3A@8.4V
Working Frequency	1520us/333Hz
Default Travel Angle	±100° =200° Total
Temperature Range	-20℃ .....+65℃
Programmable	Yes
Case Material	Aluminum Alloy
Motor Type	4 Pole Brushless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Potentiometer
Ball Bearing	2BB
Waterproof	IP65
Case Dimensions	40.5*20*38mm±0.2mm
Weight	70g±10%

## 2. Performance

### X20-7512 @7.4V



## 3. Command signal PWM Command Interface

Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Lengths	900us-2100us
Pulse Lengths for Position	1000us/1500us/2000us -100°/ 0°/+100°

## 4. Electrical Connection

Pin Assignment				
	1	Black (White mark)	Signal	PWM Command
	2	Black	DC+	Supply Voltage
	3	Black	DC-	Supply Ground