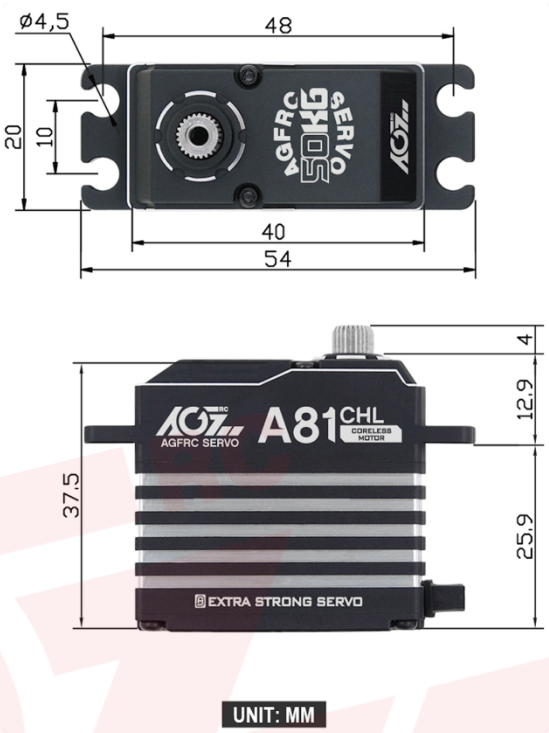
PRODUCT SPECIFICATION

A81CHL

Control System	PWM		
Refresh Rate	333 Hz		
Neutral Position	1520 µSec		
Signal Mode	Digital		
Dead band	2 µSec		
Operating Voltage	4.8V ~ 8.4V		
Operating Temp.	-15°C ~ +70°C		
Bearing	3BB		
Mechanical Angle	220°		
Dimension	40 x 20 x 37.5 mm		
Net Weight	78 g		
Connector / Cable	TYU 300mm / 22AWG		
Operating Travel	180° ± 10°		
Signal Range	500 to 2500 µSec		
Stall Torque	32 kg-cm (444 oz-in) @ 4.8V 40 kg-cm (556 oz-in) @ 6.0V 46 kg-cm (639 oz-in) @ 7.4V 50 kg-cm (695 oz-in) @ 8.4V	**Unload Current**	280mA @ 4.8V 350mA @ 6.0V 400mA @ 7.4V 450mA @ 8.4V
Operating Speed	0.235sec/ 60° @ 4.8V 0.205sec/60° @ 6.0V 0.180sec/60° @ 7.4V 0.168sec/60° @ 8.4V	**Loading Current**	3500mA @ 4.8V 3800mA @ 6.0V 4500mA @ 7.4V 5000mA @ 8.4V
Direction	CCW	**Motor Type**	Coreless
Waterproof Level	/	**Angle Sensor**	Potentiometer
Programmable	Yes	**Motor Drive**	FET Drive
Gear Material	Strength Steel	**Horn Gear Spline**	25T-Ø5.92mm
Case Material	Aluminum	**Bearing Material**	Metal
Wire Color (- + S)	Negative: Black Positive: Black Signal: Grey		
Default Accessories	① 1 pc x 25T-Ø5.92mm L=45mm Plastic Horn ② 1 pc x 25T-Ø5.92mm L=40.3mm Plastic Horn ③ 1 pc x 25T-Ø5.92mm L=27.5mm Plastic Horn ④ 2 pcs x M2*8mm Screws ⑤ 1 pc x M3*8mm Screw ⑥ 4 pcs x M3*12mm Screws ⑦ 4 pcs x 9*6.9*5.6mm Rubber Pads ⑧ 4 pcs x ϕ6*ϕ3.5*5mm Copper Sleeves		

Remark: If you have any questions about the A81CHL servo, please contact shopping@agfrc.com directly.