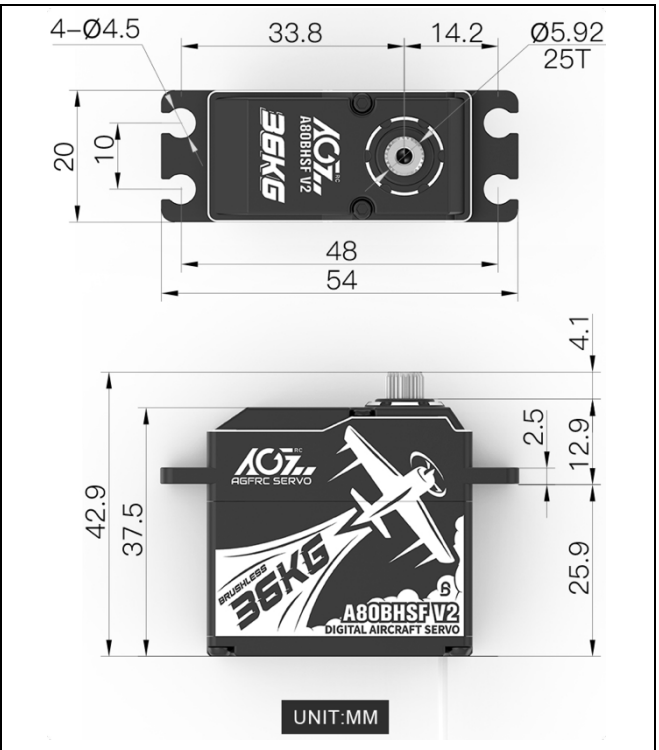
PRODUCT SPECIFICATION

A80BHSF V2

Control System	Pulse width modulation control
Refresh Rate	333Hz
Neutral Position	1520μS
Signal Mode	Digital
Dead band	2 μSec
Operating Voltage	4.8V ~ 8.4V
Operating Temperature	-15C° ~ +70C°
Bearing	Three Ball Bearings
Mechanical Angle	220°
Size	40*20*37.5mm
Net Weight	79g
Wire	TYU 300mm / 22AWG
Operating Travel	180°±10°
Signal Range	500 to 2500 μSec



Stall Torque	23 kg-cm (319 oz-in) @ 4.8V 28 kg-cm (389 oz-in) @ 6.0V 33 kg-cm (458 oz-in) @ 7.4V 36 kg-cm (500 oz-in) @ 8.4V	**Unload Current**	280mA @ 4.8V 310mA @ 6.0V 360mA @ 7.4V 400mA @ 8.4V
Operating Speed	0.120sec/ 60° @ 4.8V 0.110sec/60° @ 6.0V 0.083sec/60° @ 7.4V 0.071sec/60° @ 8.4V	**Loading Current**	4000mA @ 4.8V 4200mA @ 6.0V 4600mA @ 7.4V 5000mA @ 8.4V

Direction	☑CCW	☐CW		
Waterproof Level	☐IP65	☐IP67		
Angle Sensor	☑Potentiometer	☐Magnet Angle Sensor		
Motor Type	☑Brushless	☐Coreless	☐DC	
Motor Drive	☑FET Drive	☐IC Drive	☐Transistor Drive	
Programmable	☑Yes	☐No		
Gear Material	☑Strength Steel	☑Titanium	☐Copper	☐Plastic
Horn Gear Spline	☑25T-φ5.92mm	☐25T-φ4.94mm	☐Other _____	
Case Material	☑AL6061T6	☐Aluminum + Plastic	☐Plastic	
Bearing Material	☑Metal	☐Plastic		
Horn Accessories	☐AL6061T6	☑Plastic		
Wire Color	Negative:	☑Black	☐Brown	
	Positive:	☐Black	☑Red	
	Control Signal:	☐Grey	☑White	☐Orange