



The A2812 900KV is a brushless motor specifically crafted for FPV applications, featuring a motor KV rating of 900. It operates efficiently within a rated voltage of 25 volts and an operating voltage range from 12 to 25.2 volts, delivering a maximum current of 22 amperes and a maximum power output of 550 watts. The motor includes a stator size of 28mm diameter and 12mm length, and it is designed with dimensions of 33.8mm diameter and 25mm height, weighing 60 grams. The mounting specifications are 19 x 19 mm (M3), and it is equipped with 120mm long silicone cables.

Product details

Model	A2812 900KV
SKU	4251

Electrical specification

Motor KV	900 KV
Rated Voltage	25 V
Operating Voltage Range	12 - 25.2 V
Maximum current	22 A
Maximum power	550 W
No-load current	1.5 A @ 10 V

Mechanical specification

Stator size	28 x 12 mm
Shaft size	4.5 x 15 mm
Motor dimensions	33.8 x 25 mm
Silicone cable	18 AWG
Silicone cable length	120 mm
Mounting	19 x 19 mm (M3)
Weight	60 g

Common

Motor Temperature End-°C	Total(Electrical) Power (W)	Shaft Power (W)	Motor Efficiency (%)	Propeller Efficiency (gf/W)	System Force Efficiency (gf/W)
135.0	22.6	11.5	50.9	-12.0	-6.1
	55.8	34.8	62.4	-9.4	-5.9
	77.9	51.1	65.6	-8.6	-5.6
	107.7	72.1	66.9	-8.0	-5.4
	148.3	102.7	69.3	-7.3	-5.0
	191.8	134.7	70.2	-6.8	-4.8
	240.7	169.2	70.3	-6.4	-4.5
	297.2	206.8	69.6	-6.1	-4.3
	358.1	247.8	69.2	-5.8	-4.0
	427.6	293.6	68.7	-5.5	-3.8
	503.2	342.4	68.0	-5.2	-3.5
	584.4	388.1	66.4	-5.0	-3.3
	684.4	441.6	64.5	-4.8	-3.1
	772.9	483.0	62.5	-4.6	-2.9
	861.7	528.7	61.4	-4.5	-2.8
	944.6	564.7	58.9	-4.4	-2.6