

## Himax 35-Series Outrunner Motors

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Specifications	HC3510-1100	HC3510-1540	HC3516-0840	HC3516-1130	HC3516-1350	HC3522-0700	HC3522-0990	HC3528-0800	HC3528-1000
<b>Weight Airplanes Max (oz)</b>									
3D Flight	24-32	24-32	34-45	35-45	34-45	38-50	38-50	43-56	43-56
Aerobatic Flight	40	40	56	56	56	84	84	96	96
Leisurely Flight	50	50	70	70	70	128	128	144	144
<b>Recommended Prop</b>									
8 Volts (Amps)	12x6 (25)	10x5 (33)	13x9 (29)	12x8 (48)	11x7 (54)	14x10 (27)	13x9 (51)	14x10 (31)	14x8.5 (68)
8 Volts (Amps)	11x5.5 (18)	9x6 (27)	12x8 (22)	12x6 (39)	10x7 (41)	14x7 (21)	12x8 (38)	13x10 (25)	13x9 (57)
8 Volts (Amps)	10x7 (17)	9x4.5 (22)	11x7 (15)	11x5.5 (28)	9x7 (30)	13x8 (18)	12x6 (30)	14x7 (24)	13x6.5 (45)
11 Volts (Amps)	10x7 (30)	9x4.5 (40)	12x8 (40)	11x5.5 (49)	9x7 (50)	14x7 (35)	12x6 (52)	14x10 (54)	12x6 (57)
11 Volts (Amps)	10x5 (24)	8x4 (25)	11x7 (26)	10x6 (39)	N/A	13x8 (32)	11x7 (45)	13x10 (43)	N/A
11 Volts (Amps)	N/A	N/A	10x7 (20)	N/A	N/A	12x7 (23)	N/A	14x7 (41)	N/A
14 Volts (Amps)	N/A	N/A	10x7 (30)	N/A	N/A	12x7 (34)	N/A	13x6.5 (46)	N/A
Weight (g)	89	89	134	134	134	162	162	197	197
Weight (oz.)	3.10	3.10	4.70	4.70	4.70	5.70	5.70	6.90	6.90
Diameter (mm)	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
Diameter (in.)	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Length (mm)	32.2	32.2	42.2	42.2	42.2	48	48	54.2	54.2
Length (in.)	1.27	1.27	1.66	1.66	1.66	1.89	1.89	2.13	2.13
Axle (mm)	4	4	5	5	5	5	5	5	5
Current (A)	6-22	10-30	10-26	10-34	15-40	8-29	15-38	13-38	15-48
Peak Current (A) 15 sec.	30	42	37	48	56	40	54	54	68
LiPo Cells	2-3	2-3	2-4	2-3	2-3	2-4	2-3	2-4	2-3
NiMH & NiCd Cells	6-10	7-10	7-12	7-8	7-10	12-14	10	12-14	10
Resistance (Ohm)	0.055	0.029	0.051	0.03	0.023	0.049	0.027	0.031	0.02
Io (A)	1.2	1.8	1.5	1.8	2.3	1.3	2.2	1.7	2.6
Kv (rpm/V)	1100	1540	840	1130	1350	700	990	800	1000
Nominal Power (W)									
Maximum Power (W)	250	250	350	350	300	400	400	450	450
Maximum RPM	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Recommended Controller	35A	35-45A	35-45A	35-45A	40-56A	35-45A	45-60	45-60	60-80

**Notes:**

Prop size in green shaded cells is the prop recommended by the manufacturer that will produce the most watts for a given battery size without exceeding the continuous amperage rating.

The amp readings shown in red exceed the manufacturer's continuous amperage limit, but the prop would still be appropriate for limited motor run (LMR) applications where full power is applied for a maximum of 15 seconds.