

Hyperion Z17 Motor Series Prop Test Data

Please note that the data below is based on tests by DC Power supply, with per/cell voltage set at 3.65v. This mimics a freshly charged pack of quality lithium polymer cells - such as Hyperion CX and VX series - in the range of 18C-25C ratings. If your pack maintains less voltage under load, your amperage results will be lower. If you use a 30C rated pack, such as Hyperion VZ series, you may draw more current than listed. Most importantly, local variables - your altitude above sea level, air temperature, humidity, speed controller settings, etc - can all have a dramatic impact on amperage draw and motor heating. It is your responsibility to use an ammeter to check current, and check temperatures after a short initial flight whenever using a propeller/battery combo the first time!! Motors should never need to exceed 85C. If so, find a smaller prop which provides your desired thrust/speed ratio at lower amperage draw...

Motor Type: HP-Z1705-11				
Prop Size	Cells	A	W	
APC 7x5 SF	2S	11.1	80	
APC 8x3.8 SF	2S	12	87	3D max, Check Temp
APC 6x4 E	2S	7.8	57	SPORT
APC 6x5.5 E	2S	9.5	68	SPORT max, Check Temp
APC 4.1x4.1 S4	3S	7.1	78	
APC 4.5x4.1 S4	3S	8.5	92	Speed-Duration
APC 4.7x4.25 S4	3S	9.5	104	Speed
APC 4.75x4.75 S4	3S	10.2	111	Check Temp
APC 4.75x5.5 S4	3S	10.9	119	Check Temp
APC 5x5 S4	3S	11.4	124	Check Temp
Motor Type: HP-1705-14				
Prop Size	Cells	A	W	
APC 7x5 SF	2S	7	51	SPORT
APC 8x3.8 SF	2S	7.8	57	3D, Check Temp
APC 9x3.8 SF	2S	8.5	62	3D max, Check Temp
APC 6x4 E	2S	4.7	34	
APC 6x5.5 E	2S	5.9	42	
APC 7x5 E	2S	6.8	50	SPORT
APC 4.1x4.1 S4	3S	4.2	46	
APC 4.5x4.1 S4	3S	5.1	56	
APC 4.7x4.25 S4	3S	5.7	62	
APC 4.75x4.5 S4	3S	6	65	
APC 4.75x4.75 S4	3S	6.2	68	Speed
APC 4.75x5.5 S4	3S	6.7	73	
APC 5x5 S4	3S	7	77	
APC 5.25x4.75 S4	3S	7.2	78	
APC 5.25x6.25 S4	3S	8.4	91	Speed Max, Check Temp
APC 5.5x4.5 S4	3S	7.4	80	
APC 6x4 E	3S	7.7	83	SPORT Max, Check Temp
Motor Type: HP-Z1709-6				
Prop Size	Cells	A	W	
APC 6x4 E	2S	9.4	68	SPORT
APC 6x5.5 E	2S	12	87	SPORT-SPEED Check Temp
APC 4.1x4.1 S4	3S	7.8	85	
APC 4.5x4.1 S4	3S	9.6	105	
APC 4.7x4.25 S4	3S	11.2	122	Speed-Duration
APC 4.75x4.5 S4	3S	11.7	127	
APC 4.75x4.75 S4	3S	12.3	134	Speed Max, Check Temp
Motor Type: HP-Z1709-9				
Prop Size	Cells	A	W	
APC 7x5 SF	2S	7.2	52	
APC 8x3.8 SF	2S	8.8	63	3D-Duration
APC 9x4.7 SF	2S	10.5	76	3D Ideal
APC 10x4.7 SF	2S	12.9	93	Check Temp
APC 8x6 E	2S	8.9	50	SPORT-Duration
APC 5x5 S4	3S	6.5	71	
APC 5.25x4.75 S4	3S	6.8	75	
APC 5.25x6.25 S4	3S	8.5	93	Speed
APC 5.5x4.5 S4	3S	7.1	78	
APC 6x4 E	3S	7.5	82	SPORT-Duration
APC 6x5.5 E	3S	9.5	104	Speed-Thrust
APC 7x5 E	3S	11.8	128	SPORT Max, Check Temp