





BRUSHLESS SPEED CONTROLLER OVERVIEW



	1/8 Scale		1/8 Scale Racing	1/10 Scale				1/10 Scale Racing			
											
Name	Vortex R8	Vortex R8S	Vortex R8 Pro	Vortex R10 Sport 45	Vortex R10 Sport 45	Vortex R10 Sport 60A	Vortex R10SC	Vortex R10S	Vortex R10 Race (2-3S)	Vortex R10 Pro (1-2S)	Vortex R10 Pro (2-3S)
Key Feature	1/8 Scale Sensorless ESC	1/8 Scale Sensor ESC	1/8 Buggy and Truggy US National Champion	Sensorless Sport ESC 45A (Tamiya Plug)	Sensorless Sport ESC 45A (Deans Plug)	Sensorless Sport ESC 60A	Special Short Course Sensorless ESC	Special Short Course Sensor ESC	Special 0-Timing Class ESC	Special 1/12 Scale ESC	Multiple 1/10 US National Champion
Part#	ORI65104	ORI65107	ORI65105	ORI65106	ORI65110	ORI65111	ORI65103	ORI65108	ORI65109	ORI65101	ORI65102
Type	Sensorless	Sensor / Sensorless	Sensor / Sensorless	Sensorless	Sensorless	Sensorless	Sensorless	Sensor / Sensorless	Sensor / Sensorless	Sensor / Sensorless	Sensor / Sensorless
Const./Peak Amp.	130A / 760A	130A / 760A	180A/950A	45A/290A	45A/290A	60A/290A	100A / 520A	100A / 520A	90A/420A	120A / 760A	160A / 760A
Resistance	0.0004 ohm	0.0004 ohm	0.0002 ohm	0.0012 ohm	0.0012 ohm	0.0012 ohm	0.0007 ohm	0.0007 ohm	0.00055 ohm	0.0003 ohm	0.0003 ohm
Function	forward/brake	forward/brake	forward/brake	forward/brake	forward/brake	forward/brake	forward/brake	forward/brake	forward/brake	forward/brake	forward/brake
	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse	forward/brake reverse
	forward/reverse (for rock crawler)	forward/reverse (for rock crawler)	forward/reverse (for rock crawler)				forward/reverse (for rock crawler)	forward/reverse (for rock crawler)	forward/reverse (for rock crawler)	forward/reverse (for rock crawler)	forward/reverse (for rock crawler)
Application	1/8 Truggy / Buggy	1/8 Truggy / Buggy	1/8 off-road buggy, truggy and monster trucks, 1/8 on-road	1/10 on-road and off-road	1/10 on-road and off-road	1/10 on-road and off-road	1/10 Truggy / Buggy / Monster	1/10 Truggy / Buggy / Monster	0-Timing Racing Class	1/12 on-road, 1/10 on-road and off-road, Rock Crawler	1/12 on-road, 1/10 on-road and off-road, Rock Crawler
Motor Type	2S Lipo up to 6000KV	2S Lipo up to 6000KV	4S LiPo up to 3000KV	2S Lipo On-Road: up to 6000KV Off-Road: up to 4000KV	2S Lipo On-Road: up to 6000KV	2S Lipo On-Road: up to 6000KV Off-Road: up to 4000KV	2S Lipo - up to 6000KV	2S Lipo - up to 6000KV	2S up to 5.5T	1S up to 3.5T	2S up to 2.5T
	3S Lipo up to 4000KV	3S Lipo up to 4000KV	6S LiPo up to 2400KV	3S Lipo On-Road: up to 4000KV Off-Road: up to 2500KV	3S Lipo On-Road: up to 4000KV	3S Lipo On-Road: up to 4000KV Off-Road: up to 2500KV	3S Lipo up to 4000KV	3S Lipo up to 4000KV	3S up to 10.5T	2S up to 4.5T	3S up to 5.5T
	4S Lipo up to 3000KV	4S Lipo up to 3000KV							Up to 6000KV	Up to 12000KV	Up to 16000KV
Battery Type	6-12 cells NiMH - NiCd	6-12 cells NiMH - NiCd	6-18 cells NiMH/NiCd	4-9 cells NiMH/NiCd	4-9 cells NiMH/NiCd	4-9 cells NiMH/NiCd	6-9 cells NiMH - NiCd	6-9 cells NiMH - NiCd	5-9 cells NiMH - NiCd	4-6 cells NiMH - NiCd	5-9 cells NiMH - NiCd
	2-4 cells LiPo - LiFe	2-4 cells LiPo - LiFe	2-6 cells LiPo/LiFe	2-3 cells LiPo/LiFe	2-3 cells LiPo/LiFe	2-3 cells LiPo/LiFe	2-3 cells LiPo - LiFe	2-3 cells LiPo - LiFe	2-3 cells LiPo - LiFe	1-2 cells LiPo - LiFe	2-3 cells LiPo - LiFe
BEC	6V/3A	6V/3A	5.75V/3A	6V/3A	6V/3A	6V/3A	6V/3A	6V/3A	5.75V/3A, Linear mode	6V/2A, DC/DC Booster	5.75V/3A, Linear mode
Size	53.5x36x36mm	53.5x36x36mm	56x46.5x35mm	31.5x27.5x33mm	31.5x27.5x33mm	31.5x27.5x33mm	53.5x36x36mm	53.5x36x36mm	41.5x30.5x20.2 mm w/o fan	41.5x30.5x16.5mm w/o fan	41.5x30.5x20.2 mm w/o fan
Weight	79g	79g	105g w/o wires	74g w/wires	74g w/wires	74g w/wires	74g	74g	43g	40g	44g