

Technical Specification - Rascal Vortex Scooter

Wheelchair type Class	Class A, B or	Class C
Department of Transport Class	Class 1 2 or	Class 3
Overall dimensions fully assembled	length x width x height mm (in)	1460 (57.5) x 650 (25.6) x 1330 (52.3)
Dimensions seat back and tiller	length x width x height mm (in)	1460 (57.5) x 650 (25.6) x 1025 (40.4) – If bolt not removed then 1140 (44.7)
Maximum carrying capacity	kg (lbs)	180 (396)
Lighting	Type	LED – front and rear
Standard battery voltage and capacity	Volts and Ampere-hours	12V / 75Ah x 2
Mass (weight) of chassis (heaviest part) with standard 75 Ah batteries	kg (lbs)	125.6 (276.9)
Mass (weight) including 75 Ah batteries	kg (lbs)	146.3 (322.5)
Long Range battery voltage and capacity	Volts and Ampere-hours	12V / 100Ah x 2
Mass (weight) of chassis (heaviest part) with 100 Ah batteries	kg (lbs)	139.8 (308.2)
Mass (weight) including 100 Ah batteries	kg (lbs)	160.2 (353.2)
Range* 75 Ah batteries*	km (miles)	Up to 41 (25.5)
Range* 100 Ah batteries*	km (miles)	Up to 54 (33.5)
Type of seat	Captain (enhanced) - swivel, head rest, reclining/folding back & arms with width adjustment and seat- slide function.	
Mass (weight) of swivel	kg (lbs)	20.5 (45.2)
Wheel diameter – Front/Rear	mm (inch)	305 (12")
Tyre dimensions – Front/Rear	mm (inch)	80 / 100 - 8
Type of tyres	type	Run-flat pneumatic – “RunOn tyres”
Tyre Pressures normal	p.s.i. (bar)	35 (2.4)
Maximum speed	km/h (m.p.h.)	12.87 (8)
Minimum braking distance at maximum speed	m (ft)	3.4 (11.1)
The turn-around width	m (ft)	2.2 (7.2)
Turning diameter	m (ft)	4.0 (13.1)
Maximum safe slope	degrees of slope	10° - Do not exceed the scooter may topple
Maximum climbing ability facing upwards	degrees of slope	10°
Maximum user weight @ 10° uphill	kg (lbs)	180 (396)
Maximum user weight @ 10° downhill	kg (lbs)	180 (396)
Ground clearance	mm (in)	140 (5.5)
Maximum obstacle climbing ability	mm (in)	100 (4)
Maximum safe descendable kerb height	mm (in)	100 (4)
Force to operate Accelerator control	Newtons (lbs)	2 (0.45)
Force to operate Freewheel lever	Newtons (lbs)	45 (10.1)
Force to operate Emergency brake lever	Newtons (lbs)	60 (13.5)
Ambient operating temperature	°C (°F)	2 (35.6) to 40 (104)
USB Accessory	Voltage & max. current	5V dc / 3 Amps

This scooter meets the relevant requirements of ISO 7176:14 2008 *Range on full charge and flat ground. Due to a policy of continual improvement, Electric Mobility Euro Ltd. reserves the right to change specifications without prior notice.