

Model version: 2

Overall length	1165 mm (46")
Overall width ¹	650–790 mm (25.5"–31")
Stowage length	965 mm (38")
Stowage width	650–790 mm (25.5"–31")
Stowage height	825–875 mm (32.5"–34.5")
Weight including batteries (total mass)	206 kg (454 lb.)
Mass of the heaviest part	Backrest 7.5 kg (16.5 lb.)
Static stability forward	19° (most), 12° (least)
Static stability rearward	19° (most), 19° (least)
Static stability sideways	19° (most), 19° (least)
Theoretical continuous driving range ²	30 km (18 mi)
Theoretical manoeuvring distance range ²	8.1 km (5 mi)
Dynamic stability rearward on ramp	10°
Dynamic stability forward on ramp	10°
Dynamic stability sideways on ramp	10°
Dynamic stability sideways while turning in a circle	1.5 m (5 feet)
Dynamic stability sideways while turning suddenly	Yes
Dynamic stability rearward traversing step forward	75 mm (3")
Dynamic stability rearward traversing step rearward	75 mm (3")
Dynamic stability forward traversing forward up a step	75 mm (3")
Dynamic stability forward traversing forward down a step	75 mm (3")
Travelling forward at an oblique angle down a step	75 mm (3")
Maximum obstacle height that can be climbed and descended ³	50 mm (2")
Maximum speed (forward on horizontal)	12 km/h (7.5 mph)
Minimum braking distance from maximum speed (normal, reverse, and emergency)	2.8 m (9.2 feet), 2.8 m (9.2 feet), 2.8 m (9.2 feet)
Parking brakes, maximum slope rearward and forward	19°, 19°
Seat plane angle	–70° to 50° (–80° to 50° for user weight below 100 kg [220 lb.])
Effective seat depth	370–570 mm by 25 mm increments (14"–22" by 1" increments)
Seat width	420–570 mm by 50 mm increments (17"–23" by 2" increments)
Seat to floor height including cushion (seat surface height at front edge)	490–880 mm (19"–35")
Backrest angle	85°–180°
Backrest height	480–620 mm by 25 mm increments (19"–24" by 1" increments)
Footrest to seat distance	330–590 mm (13"–23")
Leg to seat surface angle	90°–180°
Armrest to seat distance (armrest height)	180–260 mm (7"–10")
Front armrest-to-backrest distance	120–410 mm (5"–16")
Horizontal location of axle	330 mm (13")
Minimum turning diameter	1490 mm (59")
Pivot width	1200 mm (47")
Ground clearance with user weight	80 mm (3")
Required width of angled corridor	800 mm (31.5")
Required doorway entry depth	1350 mm (53")
Required corridor width for side opening entering the corridor	800 mm (31.5")

1. Based on the joystick module being in the forward position.

2. Actual driving range will vary based on driving conditions, battery conditions, and terrain.

3. The maximum obstacle height that can be climbed and descended is tested with maximum user weight.

The wheelchair conforms to the following standards:

- a. requirements and test methods for static, impact and fatigue strengths (ISO 7176-8:1998)
- b. power and control systems for electric wheelchairs – requirements and test methods (ISO 7176-14:2008)
- c. climatic test in accordance with ISO 7176-9:2009
- d. requirements for resistance to ignition in accordance with ISO 7176-16:2012
- e. requirements and test methods for electromagnetic compatibility of electrically powered wheelchairs and scooters, and battery chargers (ISO 7176-21:2009)
- f. batteries and chargers for powered wheelchairs (7176-25:2013).

The above standards comprise both sitting and stand-up position for the wheelchair when applicable.

Standing	
Maximum length, standing position	1260 mm (50")
Maximum width, standing position	790 mm (31")
Maximum height, standing position	1920 mm (76")
Reduction of nominal range in kilometers due to the activation of the raising and lowering mechanism	The driving range decreases by approximately 0.6 km (0.4 mi)
Minimum braking distance from max speed, standing position	0.4 m (1.3 feet)
Maximum acceleration, standing position	1.26 m/s ² (4.1 ft/s ²)
Maximum deceleration, standing position	1.75 m/s ² (5.7 ft/s ²)
Static stability sideways, standing position	17°
Static stability uphill, standing position	18°
Static stability downhill, standing position	12°
Maximum obstacle height that can be climbed and descended, standing position ¹	18 mm (0.7")
Ability to negotiate obstacles, standing position (approach distance 20") ¹	25 mm (1")
Maximum speed, standing position (forward on horizontal)	2.6 km/h (1.6 mph)
Displacement along the seat plane after a complete sit-to-stand cycle	10 mm (0.4")
Displacement along the back support plane after a complete sit-to-stand cycle	-25 mm (1")
The stand-up mechanism operated properly during and after the climatic tests	The wheelchair operated properly during and after this test.
Dynamic stability in a stand-up position uphill, downhill, sideways	10°, 10°, 10°
Minimum turning diameter, standing position	1490 mm (59")
Running brakes – forward - reverse command, standing position	0.2 m (8")
Static strength test for knee/lower leg and hip/upper torso supports	Pass
Lift measurement fatigue test	Pass
Modified multi-drum fatigue test	Pass
The wheelchair passed the safety guard test	Yes

1. The maximum obstacle height that can be climbed and descended in standing position is tested with maximum user weight.

Wheels	
Tire types for the drive wheels	Air/Solid
Drive wheel tire dimensions	3.00-8"
Tire types for the caster wheels	Solid
Caster tire dimensions	2.50-3" (210 x 65)
Recommended tire pressure	250 kPa (35 psi)

Batteries	
Battery type and nominal voltage	Sealed lead acid, 2 x 12 V, group 24
Battery cycle life	450 cycles
Battery capacity (C20)	85 Ah

Miscellaneous	
Maximum user weight	136 kg (300 lb.)
Mass of test dummy used in test ¹	136 kg (300 lb.)
Occupant mass group	III
Overall height	1090-1170 mm (43"-46")
Armrest length	260, 335, 410, 460 mm (10", 13", 16", 18")
Backrest height without cushion	470, 545-670 mm by 25 mm increments (18.5", 21.5"-26.5" by 1" increments)
Backrest width	360-510 mm by 50 mm increments (14"-20" by 2" increments)
Seat to floor height without cushion	450-800 mm (18"-31.5")
Wheelchair class	B
Wheelchair group	Group 4
Drive electronics	R-net PM 120
Storage environmental specification	-40°C to 65°C (-40°F to 149°F), IPX4

Miscellaneous	
Operation environmental specification	-25°C to 50°C (-13°F to 122°F), IPX4
Force necessary to operate joystick and key pad switches	2 N
Maximum obstacle height that can be climbed and descended (approach distance 50 cm [20"]) ²	75 mm (3")
Ability to climb rated slope	6°

1. The mass can vary depending on the test. For specific weight information, see the standard in question.
2. The maximum obstacle height that can be climbed and descended is tested with maximum user weight.

ConnectMe	
GSM	Not supported
UMTS	RF band B2, B4, B5
LTE	CAT-1, RF band B2, B4, B5, B12
Network antenna	Internal
Connectivity	Bluetooth 4.1
Connectivity antenna	Internal
GNSS	GPS, GLONASS, Galileo, BeiDou
GNSS antenna	Internal
Dimensions (length x width x height)	85 x 48 x 19 mm excluding cable (3.3" x 1.9" x 0.7" excluding cable)
Cable length	1000 mm (39")
External connector	6-pin MODU, 4-pin R-net
Weight	0.06 kg / 0.14 kg including cable (0.13 lb. / 0.32 lb. including cable)
Power operation	24 VDC, max = 430 mA, Iavg = 60 mA
Standby	24 VDC, max 0.5 mA
Main fuse	500 mA
Maximum radio frequency power	UMTS: +23dBm, LTE: +23dBm, 2.4Ghz, Bluetooth: +4dBm

The specifications in this product data sheet are for the tested configuration. Please contact Permobil Customer Support for configuration options and details.