Model version: 2

Overall length	1165 mm (46")
Overall width[1]	650–790 mm (25.5"–31")
Stowage length	955 mm (38")
Stowage width	650–790 mm (25.5"–31")
Stowage height	875 mm (34.5")
Weight including batteries (total mass)	189 kg (417 lb.)
Mass of the heaviest part	Backrest 7.5 kg (16.5 lb.)
Static stability forward	19° (most), 10° (least)
Static stability backward	19° (most), 19° (least)
Static stability sideways	16° (most), 10° (least)
Theoretical continuous driving range[2]	30 km (18 mi)
Theoretical manoeuvring distance range[2]	9.0 km (5.6 mi)
Dynamic stability backward 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 backward traversing step forward	75 mm 3"
Dynamic stability backward traversing step backward	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]	65 mm (2.5")
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 backward and forward	19°, 19°
Seat plane angle	−45° to 50°
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	860 mm (34")
Required doorway entry depth	1330 mm (52")
Required corridor width for side opening entering the corridor	900 mm (35")

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.

Wheels	
Tyre types for the drive wheels	Air/Solid
Drive wheel tyre dimensions	3.00–8"
Tyre types for the castor wheels	Air/Solid
Castor wheel tyre dimensions	2.50–3" (210 x 65)
Recommended tyre 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	150 kg (330 lb.)
Mass of test dummy used in test[1]	150 kg (330 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
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	E-GSM 900, DCS 1800
UMTS	RF band B1, B8
LTE	CAT-1, RF band B1, B3, B7, B8, B20, B28
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	EGSM-900 (GMSK): +33dBm, EGSM-900 (8PSK): +27dBm, DCS1800 (GMSK): +30dBm, DCS1800 (8PSK): +26dBm, 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.