Overall length	1113 mm (44")
Overall width[1]	650–790 mm (25.5"–31")
Stowage length	880 mm (34.5")
Stowage width	650–790 mm (25.5"–31")
Stowage height	870 mm (31.5")
Weight including batteries (total mass)	194 kg (428 lb.)
Mass of the heaviest part	Backrest 7.5 kg (16.5 lb.)
Static stability forward	15° (most), 14° (least)
Static stability rearward	15° (most), 11° (least)
Static stability sideways	15° (most), 13° (least)
Theoretical continuous driving range[2]	25 km (16 mi)
Dynamic stability rearward on ramp	10°
Dynamic stability forward on ramp	10°
Dynamic stability sideways on ramp	10°
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	15°, 15°
Seat plane angle	−20° 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	85 mm (3.5")
Minimum turning diameter	1120 mm (44")
Pivot width	1130 mm (44")
Ground clearance with user weight	90 mm (3.5")
Required width of angled corridor	840 mm (33")
Required doorway entry depth	1162 mm (46")
Required corridor width for side opening entering the corridor	940 mm (37")

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	
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)	73 Ah

Miscellaneous	
Maximum user weight	136 kg (300 lb.)
Occupant mass group	III
Overall height	955–1170 mm (37.5"–46")
Armrest length	260, 335, 410, 460 mm (10", 13", 16", 18")
Backrest width	360–510 mm by 50 mm increments (14"–20" by 2" increments)
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"])[1]	100 mm (4")
Ability to climb rated slope	6°

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

ConnectMe	
GSM	Quad-band 850, 900, 1800, 1900 MHz
UMTS	RF band B1, B2, B5, B6, B8, B19
LTE	CAT-1, RF band B2, B4, B5, B12
Network antenna	Internal
Connectivity	Bluetooth 4.1
Connectivity antenna	Internal
GNSS	A-GPS L1, GLONASS, Galileo
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	GSM900: +33 dBm; DCS1800: +30 dBm; 3G: +23 dBm; LTE: +23 dBm; 2.4 GHz Bluetooth: +4 dBm

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

Electromagnetic emissions
Guidance and manufacturer's declaration

M5 Corpus and the battery charger (1825130) are intended for use in the electromagnetic environment specified below. The customer or the user of M5 Corpus and the battery charger (1825130) should assure that they are used in such an environment.

Emissions test	Compliance		Electromagnetic environment guidance
	M5 Corpus	Battery charger (1825130)	
RF emissions CISPR 11	Group 1	Group 1	M5 Corpus and the battery charger (1825130) use RF energy only for their internal functions. Therefore, their RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	Class B	M5 Corpus and the battery charger (1825130) are suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies power to buildings that are used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Not applicable	Complies	

Electromagnetic immunity
Guidance and manufacturer´s declaration

M5 Corpus and the battery charger (1825130) are intended for use in the electromagnetic environment specified below. The customer or the user of M5 Corpus and the battery charger (1825130) should assure that they are used in such an environment

M5 Corpus			
Immunity test	**Test level IEC 60601**	**Compliance level**	**Electromagnetic environment guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±2 kV, ±4 kV, ±6 kV contact ±2 kV, ±4 kV, ±8 kV air	±2 kV, ±4 kV, ±6 kV contact ±2 kV, ±4 kV, ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	If image distortion occurs, it may be necessary to position M5 Corpus further from sources of power frequency magnetic fields or to install magnetic shielding. The power frequency magnetic field should be measured in the intended installation location to assure that it is sufficiently low.
Battery charger (1825130)			
Immunity test	**Test level IEC 60601**	**Compliance level**	**Electromagnetic environment guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±2 kV, ±4 kV, ±6 kV, ±8 kV contact ±2 kV, ±4 kV, ±8 kV,±15 kV air	±2 kV, ±4 kV, ±6 kV contact ±2 kV, ±4 kV, ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	± 2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 s	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the battery charger (1825130) requires continued operation during power mains interruptions, it is recommended that the battery charger (1825130) be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	If image distortion occurs, it may be necessary to position the battery charger (1825130) further from sources of power frequency magnetic fields or to install magnetic shielding. The power frequency magnetic field should be measured in the intended installation location to assure that it is sufficiently low.

Note: U_T is the a.c. mains voltage prior to application of the test level.

M5 Corpus and the battery charger (1825130) are intended for use in the electromagnetic environment specified below. The customer or the user of M5 Corpus and the battery charger (1825130) should assure that they are used in such an environment

M5 Corpus			**Electromagnetic environment guidance**
Immunity test	**Test level according to IEC 60601**	**Compliance level**	Portable and mobile RF communications equipment should be used no closer to any part of M5 Corpus and the battery charger (1825130), including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	20 V/m 80 MHz-2.5 GHz	20 V/m	
Battery charger (1825130)			**Recommended separation distance** $d=[3.5/V_1]\sqrt{P}$ $d=[3.5/E_1]\sqrt{P}$, 80 MHz-800 MHz $d=[7/E_1]\sqrt{P}$, 800 MHz-2.5 GHz where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and *d* is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[a], should be less than the compliance level. Interference may occur in the vicinity of equipment marked with the following symbol:
Immunity test	**Immunity test**	**Compliance level**	
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 V_{ms} 150 kHz-80 MHz 3 V/m 80 MHz-2.5 GHz	3 V_{ms} 3 V/m	

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
[a] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which M5 Corpus and the battery charger (1825130) are used exceeds the applicable RF compliance level above, M5 Corpus and the battery charger (1825130) should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating M5 Corpus or the battery charger (1825130).

Recommended separation distance
Guidance and manufacturer´s declaration

M5 Corpus and the battery charger (1825130) are intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of M5 Corpus and the battery charger (1825130) can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and M5 Corpus and/or the battery charger (1825130) as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter	**Recommended separation distance according to frequency range of the transmitter**				
	M5 Corpus		**Battery charger (1825130)**		
	80 MHz–800 MHz	**800 MHz–2.5 GHz**	**150 KHz–80 MHz**	**80 MHz–800 MHz**	**800 MHz–2.5 GHz**
0.01 W	0.018 m	0.035 m	0.12 m	0.12 m	0.23 m
0.1 W	0.056 m	0.11 m	0.37 m	0.37 m	0.73 m
1 W	0.18 m	0.35 m	1.2 m	1.2 m	2.3 m
10 W	0.55 m	1.1 m	3.7 m	3.7 m	7.3 m
100 W	1.8 m	3.5 m	12 m	12 m	23 m

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.
NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.