

DESCRIPTION

ORCA Mobile is the ONLY Portable 50 kW DC Fast Charging Station for CCS/SAE or CHAdeMO EVs on the market. Designed in Italy and proudly manufactured in the USA.

BENEFITS

- Plug in and charge!
- NO additional installation costs.
- Compact form factor enables easy transportation.
- Charges an EV from 0% to 80% in 25 minutes⁽¹⁾.
- Perfect for commercial and industrial use.

• andromeda

ORCA Mobile

CCS/SAE or CHAdeMO Portable Fast Charger for Electric Vehicles

GENERAL DESCRIPTION

ORCA-Mobile is an elegant fast-charging solution, designed in Italy and fully manufactured in the USA for installation at the vehicle park of shopping malls, city centers, valet parking.

Its compact form factor enables it to be easily moved on ground and transported on vehicles.

ORCA-Mobile is a “DC Level 3 Charger” for CCS/SAE or CHAdeMO equipped Electric Vehicles (EVs), provides up to 50 kW of output power, and accept any AC and DC power input (PATENT PENDING).

At maximum performance the ORCA-Mobile can recharge the battery of common EVs (battery energy capacity 25 kWh) from 0% to 80% in less than 25 minutes.



FEATURES

- Modern Italian design with sleek stainless steel enclosure.
- Portable fast charger for CHAdeMO® EVs.
- Charges 0% to 80% in 25 minutes⁽¹⁾.
- 15" LCD color display.
- Maximum output power: 50 kW, 500 V, 125 A.
- Efficiency: 95% @ 50 kW.
- User-friendly interface on any Wi-Fi connected device.
- Simple “Start” and “Stop” button operation.
- Flexible power input hardware to easily accommodate to local electric service capabilities.
- Integrated breakers for main and auxiliary circuits.
- Ingress protection / NEMA® type: IP14 / 3R.
- Dimensions W x D x H: 25" x 16" x 40" (63 x 40 x 100 cm).
- Weight: from 216 lbs (98 kg).
- CCS/SAE standards: DIN SPEC 70121:2014-12 ISO 15118-2.
- CHAdeMO® standards: 0.9 and 1.0.

OPTIONS

- Flexible range of input power (AC or DC, see Table 1).
- OpenADR (for Automatic Demand Response).
- ORCA NET for remote 24/7 monitor, access control, maintenance.
- Communication: Wireless IEEE 802.11g, 3G/4G, or Ethernet.
- Smartphone app to control/monitor charging.
- Cable lengths: 4, 6, 7.5 or 9 m (13, 20, 25, or 30 ft).

⁽¹⁾ 25 kWh EV battery.

Table 1. Choice of Power Input Configurations (Factory Configured)

PI	Power Input Type	Power Input Wires	Power Input Voltage (V)	Max Input Current (A)	Max Input Power (kW)	Max Output Power (kW)
01	DC	(+), (-), Earth	250-350	222	56	50
02 ⁽³⁾	DC	(+), (-), Earth	350-600	154	54 ⁽⁴⁾	50
03	DC	(+), (-), Earth	500-900	108	54	50
04	AC ^(2,5)	3-phase, Earth	480	63	54	50
05	AC ^(2,5)	3-phase, Earth	400	76	53	50
06	AC ⁽²⁾	1-phase, Earth	240	88	21	20
				110	26	25
07	AC ^(2,5)	3-phase, Earth	208-240	148	53	50

⁽²⁾ AC frequency can be 50 or 60 Hz.

⁽³⁾ Solar panel application. PV nominal power without solar tracker should be at least twice the max input power⁽⁴⁾ for stable operation under any sunshine condition.

⁽⁵⁾ Setup complies with CHAdeMO[®] standard.

Table 3. CHAdeMO Output Cable Length

Length	L
4 m (13')	1
6 m (20')	2
7.5 m (25')	3
9 m (30')	4

Table 4. Connection

Connection	WI
Wireless IEEE 802.11g	Wi
3G/4G cellular	3G

Table 5. ORCA Mobile standard

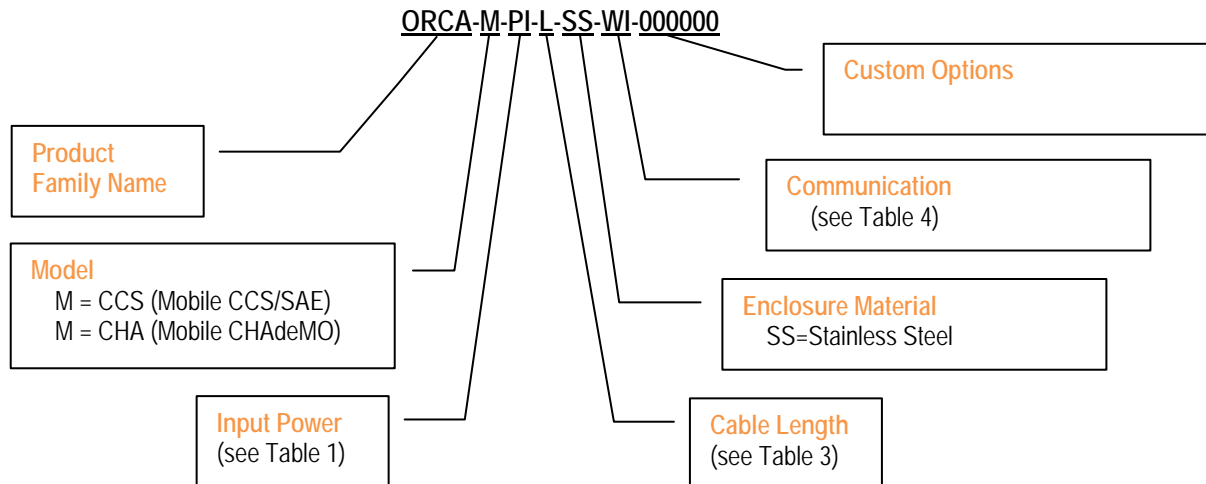
Model	M
CCS/SAE	CCS
CHAdeMO	CHA

Table 2. Physical and Environmental Specifications

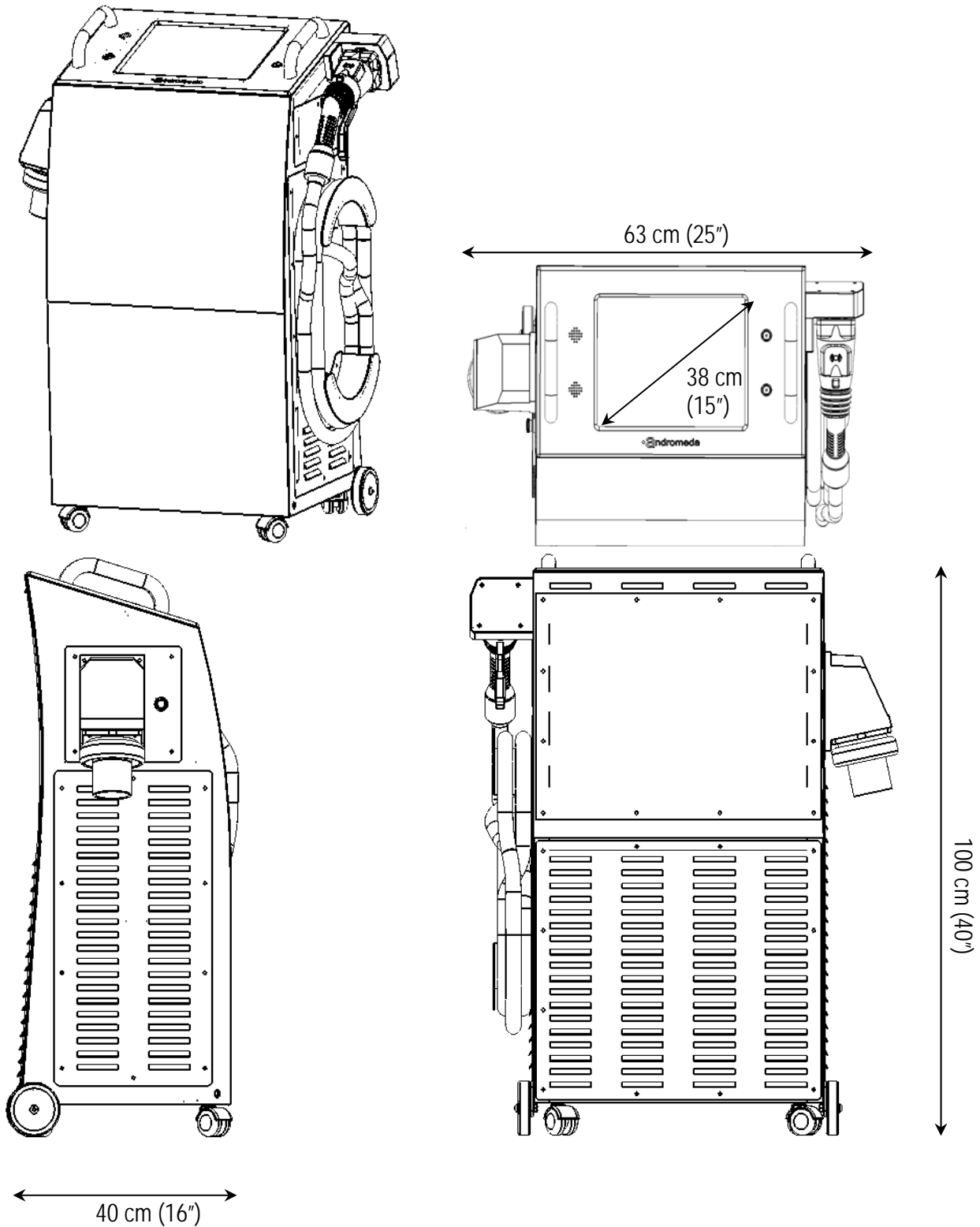
Description	Reference
Power supply options	According to Table 1
Dimensions W x D x H	25 x 16 x 40" (63 x 40 x 100 cm)
Charging cable length	4, 6, 7.5, or 9 m (13, 20, 25, or 30 ft)
Operation	Start, Stop and Emergency buttons
Ingress protection	IP34 / NEMA 3R
Operating environment	Ambient temperature: -30 to 50°C (22 to 122°F)
	Ambient humidity: 5 to 80%
	Altitude: 1,000 m (3,281 ft) or lower
	Atmosphere: Containing no corrosive gas



ORDER INFORMATION



PHYSICAL DIMENSIONS



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