

## DESCRIPTION

ORCA Inceptive is the ONLY Transportable 50 kW DC Fast Charging Station for CHAdeMO® EVs on the market to jumpstart EVs (Vehicle to Vehicle, V2V). Designed in Italy and proudly manufactured in the USA.

## BENEFITS

- Just plug in and charge!
- Compact form factor enables easy transportation.
- Charges an EV from 0% to 80% in 25 minutes<sup>(1)</sup>.
- Perfect for EV rescue, fleets, test tracks, dealer workshops, car rental firms, etc.
- Outstanding value for the money.

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## ORCA Inceptive

### CHAdeMO® On-Board V2V Fast Charger

## GENERAL DESCRIPTION

ORCA Inceptive is an On-Board fast charging station, designed in Italy and fully manufactured in the USA.

Its compact form factor enables it to be easily installed in the trunk of an Electric Vehicle (EV). It can jumpstart a stranded EV by means of two CHAdeMO plugs.

ORCA Inceptive is a “DC Level 3 Charger” for CHAdeMO® equipped Electric Vehicles (EV), that delivers up to 50 kW output power.

In input it accepts AC from the Grid and from another EV (PATENT PENDING). At maximum performance the ORCA Inceptive can recharge the battery of a stranded EV (battery energy capacity 25 KWh) from 0% to 20% in 5 minutes.



## FEATURES

- Modern Italian design.
- Compact, fully embedded in the EV trunk.
- Portable fast charger for CHAdeMO® EVs.
- Two 9 m (30 ft) CHAdeMO® cables for jumpstarting.
- Charges 0% to 20% in 5 minutes<sup>(1)</sup>.
- 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.

- Dimensions W x D x H: 34 x 13 x 22 in (87 x 33 x 55 cm).
- Weight: from 205 lbs (93 kg).
- CHAdeMO® standards: 0.9 and 1.0.

## OPTIONS

- Enclosure: stainless steel or painted steel.
- Embedded ORCA-EDM (Energy Demand Management).
- Flexible range of auxiliary input power (AC or DC, see Table 1).
- Communication: Wireless IEEE 802.11g, 4G, or Ethernet.
- ORCA-RUM (Remote Upgrade and Maintenance).
- Remotely controllable via third-party software control system.
- Smartphone app to control/monitor charging.

<sup>(1)</sup> 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 <sup>(3)</sup>	DC	(+), (-), Earth	350-600	154	54 <sup>(4)</sup>	50
03	DC	(+), (-), Earth	500-900	108	54	50
04	AC <sup>(2,5)</sup>	3-phase, Earth	480	63	54	50
05	AC <sup>(2,5)</sup>	3-phase, Earth	400	76	53	50
06	AC <sup>(2)</sup>	1-phase, Earth	240	88	21	20
				110	26	25
07	AC <sup>(2,5)</sup>	3-phase, Earth	208-240	148	53	50

<sup>(2)</sup> AC frequency can be 50 or 60 Hz.

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

Table 3. CHAdeMO<sup>®</sup> 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

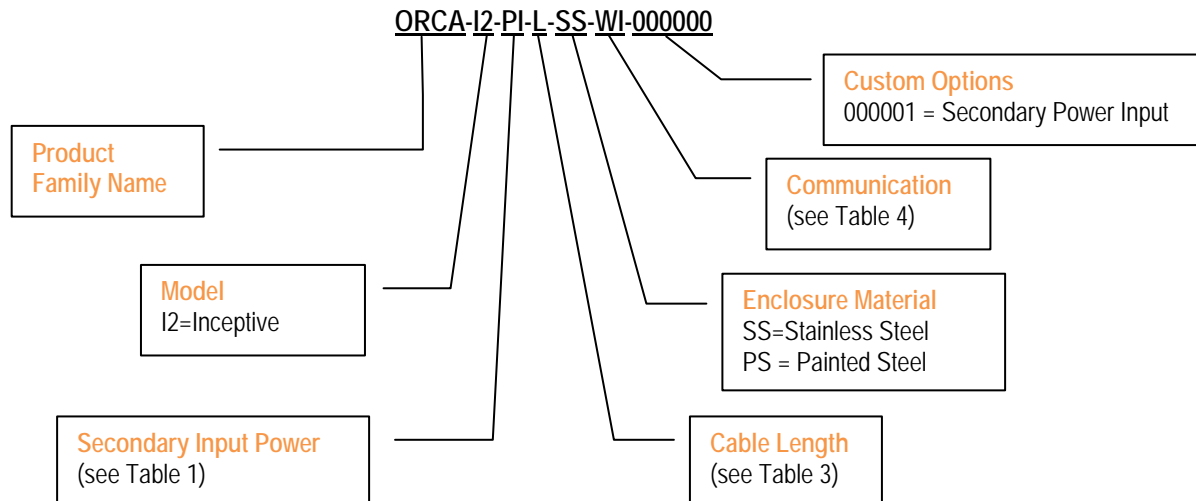
Connection	WI
Wireless IEEE 802.11g	Wi
4G cellular	4G

Table 2. Physical and Environmental Specifications

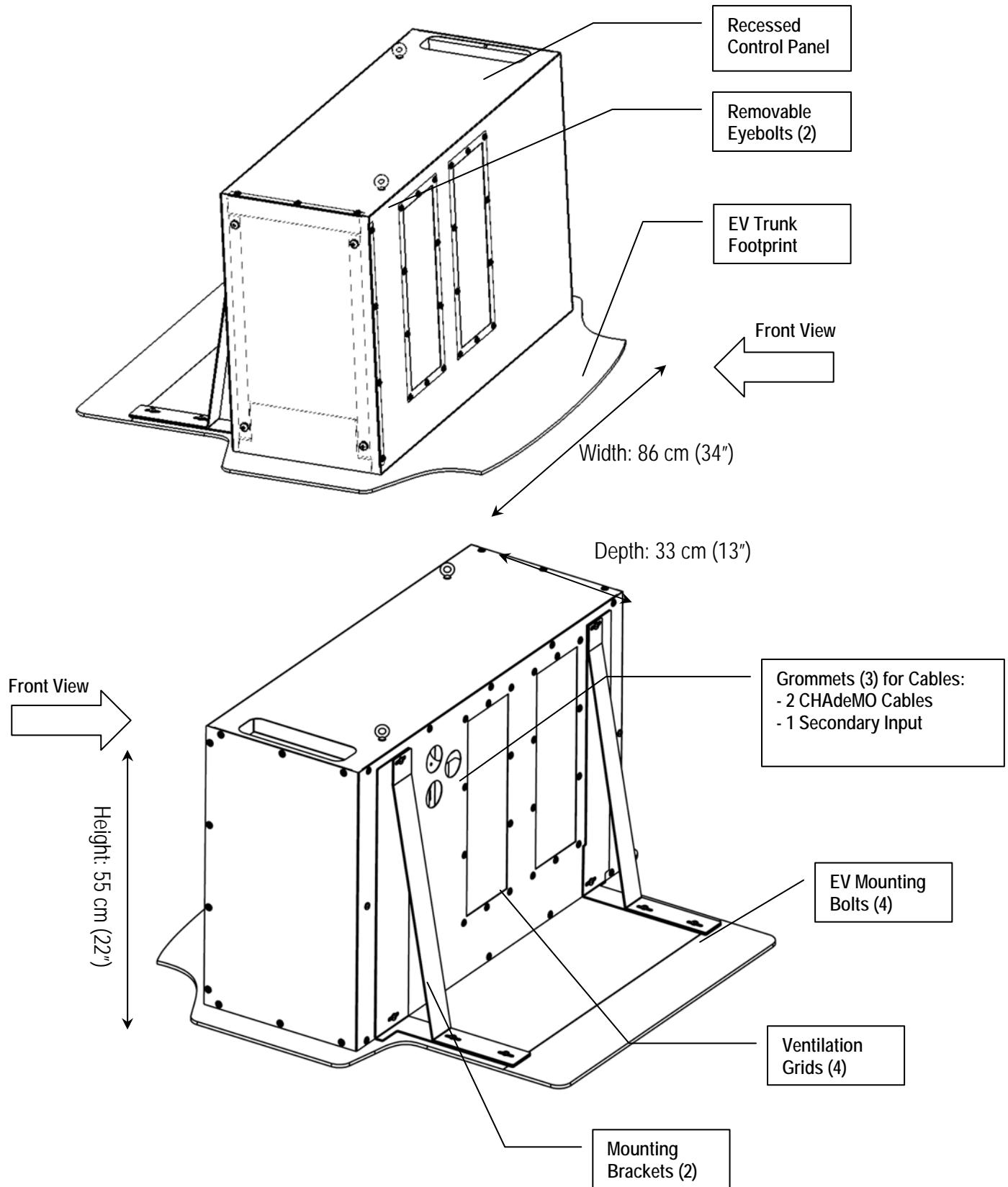
Description	Reference
Power supply options	See Table 1
Dimensions W x D x H	25 x 16 x 40" (63 x 40 x 100 cm)
CHAdeMO cable length	4, 6, 7.5, or 9 m (13, 20, 25, or 30 ft)
Operation	Start, Stop, and Emergency buttons
Ingress protection	IP34 / NEMA 3R
Operating environment	Ambient temperature: -30 to 50°C (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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