

DESCRIPTION

ORCA Inceptive is the ONLY Transportable 50 kW DC Station on the market. It is capable of Vehicle to Vehicle (V2V) and Vehicle to Building (V2B) fast charging and discharging.

BENEFITS

- V2V Mode: just plug in and charge!
- Compact form factor enables easy transportation.
- Charges an EV from 0% to 80% in 25 minutes⁽¹⁾.
- Perfect for EV rescue, fleets, test tracks, dealer workshops, car rental firms, etc.
- V2B Mode: avoid Peak Demand from the grid delivering energy from EV battery to the building.
- Outstanding value for the money.



ORCA Inceptive

CHAdEMO or CCS On-Board V2V and V2B Fast Charger/Discharger

GENERAL DESCRIPTION

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

ORCA Inceptive is compact and can be easily installed in the trunk of an Electric Vehicle (EV). It can jumpstart a stranded EV by means of two EV plugs, transferring energy from an EV (CHAdEMO) to another EV (CCS or CHAdEMO). It operates up to 50 kW and it is networked (OCPP 1.6, OpenADR 2.0b, and MODBUS/IP).

From an optional port, ORCA Inceptive accepts AC from the Grid (input only) or DC from a Microgrid (input and output).

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 CCS or CHAdEMO[®] EVs.
- Up to 9 m (30 ft) cables for jumpstarting.
- Charges 0% to 20% in 5 minutes⁽¹⁾.
- 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 (AC or DC).
- 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).
- Standards: CCS ISO/IEC 15118, CHAdEMO 0.9 and 1.0.

OPTIONS

- Enclosure: NEMA 3R stainless steel or painted steel.
- Embedded ORCA-VEN (for Energy Demand Management).
- Flexible range of auxiliary input power (AC or DC, see Table 1).
- Communication: Wireless IEEE 802.11g, 4G, or Ethernet.
- Networked by InCISIVE ORCA-NET.
- Remotely controllable via OCPP 1.6, OpenADR 2.0b, and MODBUS/IP.
- Smartphone app to control/monitor charging and discharging.

Andromeda Power is a member of CHAdEMO[®].

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	50 ⁽⁴⁾
03 ⁽⁶⁾	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	88 110	21 26	20 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 output power⁽⁴⁾ for stable operation under any solar irradiation condition.

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

⁽⁶⁾ DC Microgrid application.

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)
CCS or CHAdeMO cable length	4, 6, 7.5, or 9 m (13, 20, 25, or 30 ft)
Operation	Start, Stop, and Emergency buttons
Outdoor cabinet (optional) 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

Table 3. CCS or 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. Network Connectivity

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



ORDER INFORMATION

ORCA-I3-PI-L-SS-WI-000000

Product Family Name

Model
I3=Inceptive 3

Secondary Power Input
(see Table 1)

Custom Options

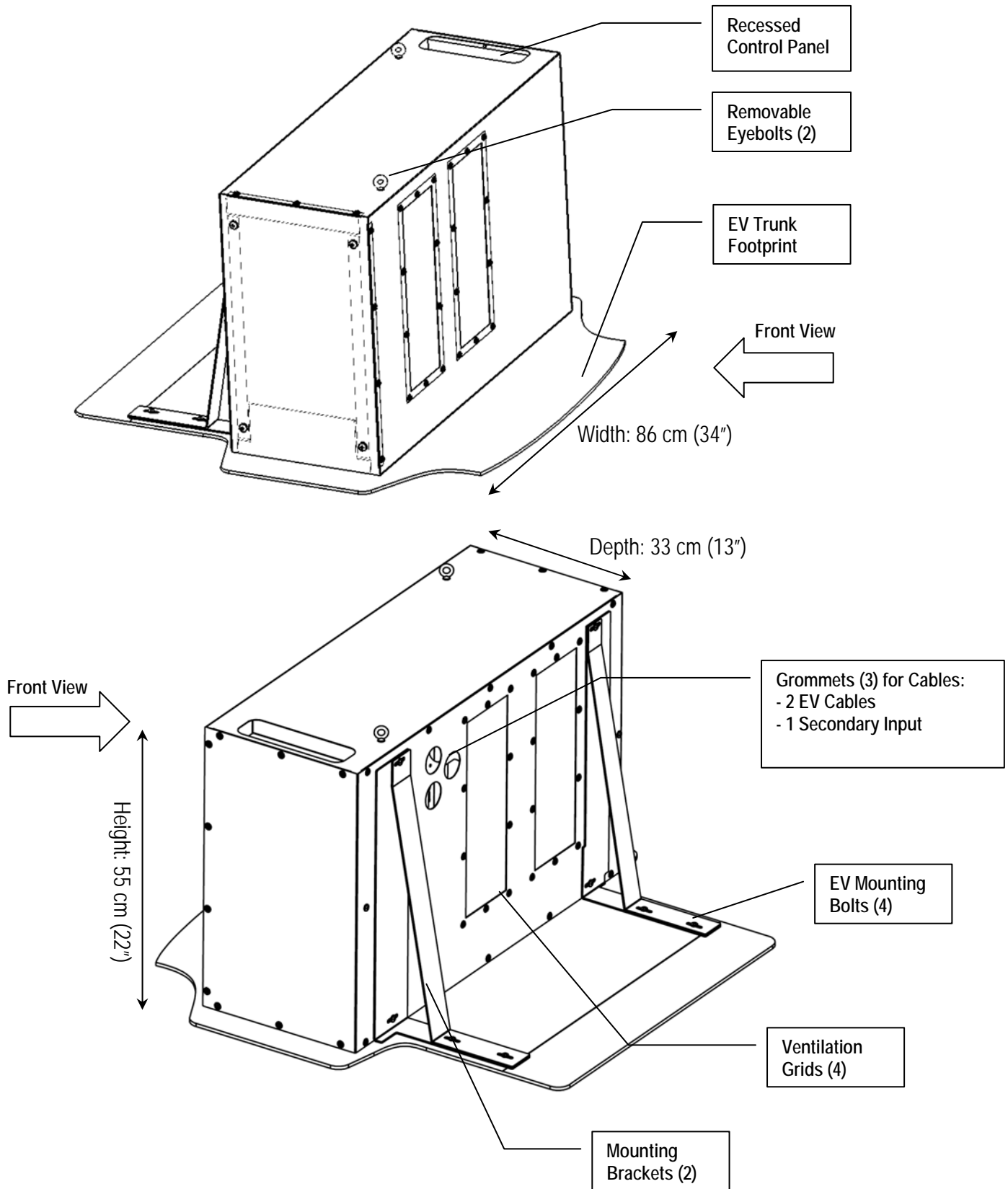
000001 = Secondary Power Input
001000 = CCS output cable

Communication
(see Table 4)

Enclosure Material
SS=Stainless Steel
PS = Painted Steel

Cable Length
(see Table 3)

PHYSICAL DIMENSIONS



Andromeda Power LLC is a registered trademark of Andromeda S.r.l. Corporation. All other trademarks are property of their respective owners. This technical information specifies the Orca Mobile charger but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.