



Green Vehicle Charger  
**PRODUCT CATALOGUE**

Electric Vehicle Charging Solutions



# Electromobility

GVC, a company with great expertise in design, development and manufacturing of electronic devices, has landed a new range of electric charging stations.

In GVC we are focused on developing innovative electronic products and services to improve the quality of life and protect the environment. We adopt and use best practices in order to decrease the environmental CO2 footprint and choose materials that are according to high quality standards, checked for their environmental impact.

It is a near future demand to develop the infrastructure for a network of electric charging stations worldwide to move into the Electromobility era. The key solution for this safe transition, is the reliable and continuous development of charging stations and services, that should be a step forward to the consumer demands.

# WHY GVC?

GVC is a company with a great expertise in design and developing of electronic systems and software, that aims to provide a holistic approach on EV charging. Taking into consideration the growing market needs and always with respect to environment, the company has developed a full range of AC charging stations and the monitoring software and can also provide customized solutions.



# ORION



## Multilingual

Capability to add easily any menu language



RFID used identification

RFID (MIFARE) & communication protocol S2W & OCPP 1.6Json



## Robust Construction

Appropriate for indoor or outdoor use



Mechanical Impact IK10

Waterproof - IP55 Rating



## Anti-graffiti

Capability to apply anti-graffiti coating



### DYNAMIC

Load Management



### Active

Load Management

## Load management

Load Management capability via web platform & active "smart" load management capability with additional external energy meter in installation (smart building energy management systems)



## OPERATING CONDITIONS

Operating Temperature	-25 °C - 50 °C
Storage Temperature	-30 °C - 70 °C
Humidity	5% - 95% RH (without condensation)
Installation Altitude	Up to 2000m



## CONSTRUCTION

Enclosure	Galvanized Steel, Polycarbonate (capability for anti-graffiti coating)
IP rating	IP55
Mechanical Impact IK	IK10
Display	LCD 4,3"
Outputs	Type 2 socket-outlet or Mode 3 tethered cable with Type 2 outlet (5m)
Charger Dimensions	300x575x170mm (width x height x depth)
Dimensions of charger on base	Ground:440x1534x195mm, Wall:300x575x200mm



## CERTIFICATION - WARRANTY

Regulations-Accredited Notification Body	IEC 61851-1:2017, EN 62196-1:2014, EN 62196-2:2017 - DEKRA
Warranty	2 years

# ORION mini



# ORION MINI

Single or Three-phase AC charging station for domestic, private or semi-public use.



LED  
INDICATION



WiFi, Ethernet, GSM



IP54, IK10



RFID

**Charging Output:** 1  
**Max. Output Power:** 7kW or 22kW  
**Network Connection via:** Ethernet or  
WiFi or GSM

**Easy to use, install and upgrade.**  
**Compatible with all electric cars on  
the market today and in the future.**

**Best suited for home use.**

GVC - CHARGERS, having completed the range of public chargers, proceeds with the private charging station series ORION mini. Focusing on quality and high design aesthetics which is already established by ORION range of products, ORION mini is ideal for home or work installations, has a metallic and polycarbonate enclosure and small size, easy to install. Orion mini is available in 2 power levels, 7kW and 22kW, while the built in 5m length tethered cable with Type 2 outlet, enables a quick and easy connection with the EV.

RFID, GVC's phone app or any other OCPP phone app can be used for user identification and management of the charger. Can be connected to the Internet via WIFI, Ethernet or GSM, meeting the needs of all installations. Through GVC-CHARGERS's phone app, ORION mini can be set to different power levels according to the levels of consumption at the building, avoiding overloads and leading to a proper load management and energy efficiency.



## OM-07HG & OM-22HG

With 5m Mode 3 tethered cable Type 2  
Built in 5m length, Mode 3, tethered  
Cable with Type 2 outlet for easy and  
fast connection with the Electric  
Vehicle

# ORION MINI

## TECHNICAL SPECIFICATIONS

		ORION mini 7kw	ORION mini 22kw	
AC Input Characteristics	AC Input Voltage	230V AC $\pm$ 10%	400V AC $\pm$ 10%	
	Input Type	1P + N + PE	3P + N + PE	
	AC Input Current	32A	32A / phase	
	Frequency	50/60Hz		
AC Output Characteristics	AC Voltage Output	220V AC	400V AC	
	Power	7 kW max	22 kW max	
	AC Output current	32 A	32 A / phase	
Operating Conditions	Operating Temperature	-25°C - +50°C		
	Storage Temperature Humidity	-30°C - +70°C 5% - 95% RH (no condensation)		
	Installation Altitude	Up to 2000m		
Construction	Enclosure	Steel, Polycarbonate		
	IP Protection	IP54		
	Mechanical Impact IK	IK10		
	Charging Mode	Mode 3		
	Outputs	Built in 5m length tethered cable with Type 2 output		
	Charger Dimensions	253x253x105.5 mm (width x height x depth)		
	Weight	5 kg		
Electronic Parts	Energy Meter	Built in energy meter		
	Current Setting	AC output current adjustment from 10% up to 100%		
	Protective Devices	Built in DC Residual Current Protection 6mA (DC leakage 6mA according to EN 62955) **		
		Ground Loss Detection Overtemperature Protection (OTP)		
		In the distribution panel: MCCB 2P Type C 40A (or fuses 35 A) to protect the charger and cabling	In the distribution panel: MCCB 2P Type C 40A (or fuses 35 A) to protect the charger and cabling	
		In the distribution panel: Residual Current Protection RCD 2P Type A 40A	In the distribution panel: Residual Current Protection RCD 4P Type A 40A	
		In the distribution panel: Surge Protection Device Type 2 according to EN 60364		
	Communication Protocol	S2W & OCPP 1.6 JSON		
	User Identification	RFID		
	Connectivity	WIFI or Ethernet or GSM		
Charging	Charging Time	6-7 h	1,5-2 h	
Installation	Grid Circuit Breaker	In the distribution panel: MCCB 2P Type C 40A (or fuses 35 A) to protect the charger and cabling	In the distribution panel: MCCB 4P Type C 40A (or fuses 35 A) to protect the charger and cabling	
	Level of Grid Power Supply	No 3 - Level of Grid Power Supply 8kVA ***	No 3 - Level of Grid Power Supply 35kVA ***	
	Explosive Zones	Installation Outside ATEX zones		
	Grid Substation	Not Applicable		
	Cable cross section	3x10mm <sup>2</sup> (Cable length up to 60m), 3x16mm <sup>2</sup> (cable length > 60m)	5x10mm <sup>2</sup> (Cable length up to 120m), 5x16mm <sup>2</sup> (cable length > 100m)	

ORION mini has built in DC residual current protection 6mA. The electrical installer should install in the distribution panel an RCD Type A 40A, an SPD Type 2 and an MCCB Circuit Breaker Type C 40A to protect the charging station and the user.

The needed level of grid power supply is calculated each time based on the power demands of the installation, especially the sum of the loads of the installation and the load of the charger (7kW or 22kW) taking into consideration the simultaneity factor. The above example for 22kW charger was based on a domestic installation where the already installed grid power supply was 3-phase and 15kVA and had to be upgraded to 35kVA in order to facilitate the charging station. The above example for 7kW charger was based on a domestic installation and the charging station was connected to a new, independent power supply.



# ORION SERIES



# ORION 7H

Three-phase AC charging station for home or work.



4.3" LCD



WiFi, Ethernet, GSM



S2W OCPP 1.6



RFID

Charging Output: 1

Max. Output Power: 7kW

Display: LCD 4,3"

Ground or Wall Mounted Network Connection via:  
Ethernet or WiFi or GSM

- > High security communication protocol S2W and OCPP 1.6 JSON.
- > Overvoltage and undervoltage protection.
- > Overtemperature protection, Ground loss Detection.



## ORION 7HG

With 5m Mode 3 tethered cable Type 2

Built in 5m length, Mode 3, tethered cable with Type 2 outlet for easy and fast connection with the electric vehicle.



## ORION 7HS

With Type 2 Socket Outlet

Type 2 Socket Outlet with protective cap



# ORION 7H

## TECHNICAL SPECIFICATIONS

AC Input Characteristics	AC Input Voltage	230VAC
	Input Type	1P + N + PE
	AC Input Current	32A
	Frequency	50/60Hz
AC Output Characteristics	AC Output Voltage	230VAC
	Power	7 KW max
	AC Output Current	32 A
Weight	Wall base	With tethered cable 16,6kg , With socket outlet 14,9kg
	Ground Base	With tethered cable 58,3kg , With socket outlet 56,7kg
Electronic Parts	Protective Devices	Overvoltage (OVP) & Undervoltage (UVP) Protection
		Ground Loss Detection
		Capability to add RCD (Residual Current Protection) Type B with AC leakage detection 30mA and DC smooth Current detection 6mA and circuit breaker MCCB Type C*
		Capability to add Surge Protection SPD Type 2*
	Communication Protocol	S2W & OCPP 1.6 JSON
	Language Menu	Greek, English **
	User Identification	RFID
Connectivity	Ethernet or WiFi or GSM	
Charging	Time	6-7 hours
Installation	Circuit Breaker Protection	Grid MCCB 40A
	Level of Grid Power Supply	No 5 - Maximum Agreed Power 12kVA from Network Operator ***
	ATEX zones	Installation outside ATEX zones
	Grid Substation	Not Applicable
	Cable Cross Section	3x6mm <sup>2</sup> (cable length up to 25m), 3x10mm <sup>2</sup> (cable length up to 50m), 3x16mm <sup>2</sup> (cable length up > 50m)

It can be manufactured with all protective devices built-in the enclosure of charger, the surge protection device SPD Type 2, the RCD with AC current detection 30mA and DC leakage detection of 6mA and the Circuit Breaker MCCB Type C.

Capability to install different menu language.

The needed level of grid power supply is calculated each time based on the power demands of the installation, especially from the loads of the installation added by the load of charger (7kW) and the simultaneity factor. The above example was based on a domestic installation where the grid power supply was single phase and 8kVA and it had to be increased to 12kVA in order to facilitate the charging station

# ORION11H

Three-phase AC charging station for home or work.



4.3" LCD



WiFi, Ethernet, GSM



S2W OCPP 1.6



RFID

Charging Output: 1

Max. Output Power: 11kW (Upgradeable to 22kW)

Display: LCD 4,3"

Ground or Wall Mounted Network Connection via:  
Ethernet or WiFi or GSM

- > High security communication protocol S2W and OCPP 1.6 JSON.
- > Overvoltage and undervoltage protection.
- > Overtemperature protection, Ground loss Detection.



## ORION 11HG

With 5m Mode 3 tethered cable Type 2

Built in 5m length, Mode 3, tethered cable with Type 2 outlet for easy and fast connection with the electric vehicle.



## ORION 11HS

With Type 2 Socket Outlet

Type 2 Socket Outlet with protective cap



# ORION11H

## TECHNICAL SPECIFICATIONS

<b>AC Input Characteristics</b>	AC Input Voltage	400 VAC $\pm$ 10%
	Input Type	3P + N + PE
	AC Input Current	16A /phase
	Frequency	50/60Hz
<b>AC Output Characteristics</b>	AC Output Voltage	400VAC
	Power	11 KW (Upgradable to 22KW)
	AC Output Current	16 A / phase
<b>Weight</b>	Wall base	With tethered cable 18,9kg, With socket outlet 17,2kg
	Ground Base	With tethered cable 60,6kg, With socket outlet 58,9kg
<b>Electronic Parts</b>	Protective Devices	Overvoltage (OVP) & Undervoltage (UVP) Protection
		Ground Loss Detection
		Overtemperature Protection (OTP)
		Capability to add RCD (Residual Current Protection) Type B with AC leakage detection 30mA and DC smooth Current detection 6mA and circuit breaker MCCB Type C*
		Capability to add Surge Protection SPD Type 2*
	Communication Protocol	S2W & OCPP 1.6 JSON
	Language Menu	Greek, English **
	User Identification	RFID
Connectivity	Ethernet or WiFi or GSM	
<b>Charging</b>	Time	3-4 hours
<b>Installation</b>	Circuit Breaker Protection	Grid MCCB 40A
	Level of Grid Power Supply	No 1 - Maximum Agreed Power 15kVA 3-Phase from Network Operator ***
	ATEX zones	Installation outside ATEX zones
	Grid Substation	Not Applicable
	Cable Cross Section	5x6mm <sup>2</sup> (cable length up to 100m), 5x10mm <sup>2</sup> (cable length up to 180m),

It can be manufactured with all protective devices built-in the enclosure of charger, the surge protection device SPD Type 2, the RCD with AC current detection 30mA and DC leakage detection of 6mA and the Circuit Breaker MCCB Type C.

Capability to install different menu language.

The needed level of grid power supply is calculated each time based on the power demands of the installation, especially from the loads of the installation added by the load of charger (11kW) and the simultaneity factor. The above example was based on a work installation where the charging station was powered supplied directly from a separate new connection, independent from the rest of the building. The needed grid power supply was Level1 three phase with 15kVA in order to facilitate the charging station.

# ORION 22H

Three-phase AC charging station for home or work.



4.3" LCD



WiFi, Ethernet, GSM



S2W OCPP 1.6



RFID

Charging Output: 1

Max. Output Power: 22kW

Display: LCD 4,3"

Ground or Wall Mounted Network Connection via:  
Ethernet or WiFi or GSM

- > High security communication protocol S2W and OCPP 1.6 JSON.
- > Overvoltage and undervoltage protection.
- > Overtemperature protection, Ground loss Detection.



## ORION 22HG

With 5m Mode 3 tethered cable Type 2

Built in 5m length, Mode 3, tethered cable with Type 2 outlet for easy and fast connection with the electric vehicle.



## ORION 22HS

With Type 2 Socket Outlet

Type 2 Socket Outlet with protective cap



# ORION22H

## TECHNICAL SPECIFICATIONS

<b>AC Input Characteristics</b>	AC Input Voltage	400 VAC $\pm$ 10%
	Input Type	3P + N + PE
	AC Input Current	32A /phase
	Frequency	50/60Hz
<b>AC Output Characteristics</b>	AC Output Voltage	400VAC
	Power	22 KW
	AC Output Current	32 A / phase
<b>Weight</b>	Wall base	With tethered cable 18,9kg, With socket outlet 17,2kg
	Ground Base	With tethered cable 60,6kg, With socket outlet 58,9kg
<b>Electronic Parts</b>	Protective Devices	Overvoltage (OVP) & Undervoltage (UVP) Protection
		Ground Loss Detection
		Overtemperature Protection (OTP)
		Capability to add RCD (Residual Current Protection) Type B with AC leakage detection 30mA and DC smooth Current detection 6mA and circuit breaker MCCB*
		Capability to add Surge Protection SPD Type 2*
	Communication Protocol	S2W & OCPP 1.6 JSON
	Language Menu	Greek, English **
	User Identification	RFID
Connectivity	Ethernet or WiFi or GSM	
<b>Charging</b>	Time	1.5-2 hours
<b>Installation</b>	Circuit Breaker Protection	Grid MCCB 40A
	Level of Grid Power Supply	No 3 - Maximum Agreed Power 35kVA 3-Phase from Network Operator ***
	ATEX zones	Installation outside ATEX zones
	Grid Substation	Not Applicable
	Cable Cross Section	5x10mm <sup>2</sup> (cable length up to 100m), 5x16mm <sup>2</sup> (cable length up to 150m),

It can be manufactured with all protective devices built-in the enclosure of charger, the surge protection device SPD Type 2, the RCD with AC current detection 30mA and DC leakage detection of 6mA and the Circuit Breaker MCCB Type C.

Capability to install different menu language.

The needed level of grid power supply is calculated each time based on the power demands of the installation, especially from the loads of the installation added by the load of charger (22kW) and the simultaneity factor. The above example was based on a work installation where the already installed grid power supply was 3-phase and 15kVA and had to be upgraded to 35kVA in order to facilitate the charging station

# ORION 22C

Three-phase AC charging station for home or work.



DYNAMIC  
Load Management

MID



4.3" LCD



WiFi, Ethernet, GSM

SPD



S2W OCPP 1.6



RFID



Active  
Load Management

Charging Output: 1

Max. Output Power: 22kW

Display: LCD 4,3"

Ground or Wall Mounted Network Connection via: Ethernet or  
WiFi or GSM

High security communication protocol S2W and OCPP 1.6 JSON.

- > Surge Protection SPD Type 2
- > RCD Protection Type B with AC leakage detection of 30mA and DC leakage detection of 6mA, Circuit Breaker MCCB, Overvoltage and Undervoltage Protection, Overtemperature Protection.
- > Ground Loss Detection
- > MID energy meter
- > Load Management Capability



## ORION 22CG

With 5m Mode 3 tethered cable Type 2

Built in 5m length, Mode 3, tethered cable with Type 2 outlet for easy and fast connection with the electric vehicle.



## ORION 22CS

With Type 2 Socket Outlet

Type 2 Socket Outlet with protective cap





# ORION22C

## TECHNICAL SPECIFICATIONS

<b>AC Input Characteristics</b>	AC Input Voltage	400 VAC $\pm$ 10%
	Input Type	3P + N + PE
	AC Input Current	32A /phase
	Frequency	50/60Hz
<b>AC Output Characteristics</b>	AC Output Voltage	400VAC
	Power	22 KW
	AC Output Current	32 A / phase
<b>Weight</b>	Wall base	With tethered cable 18,9kg, With socket outlet 17,2kg
	Ground Base	With tethered cable 60,6kg, With socket outlet 58,9kg
	Energy Meter	MID certified 3-Phase energy meter*
<b>Electronic Parts</b>	Protective Devices	Overvoltage (OVP) & Undervoltage (UVP) Protection
		Ground Loss Detection
		Overtemperature Protection (OTP)
		Capability to add RCD (Residual Current Protection) Type B with AC leakage detection 30mA and DC smooth Current detection 6mA and circuit breaker MCCB*
		Capability to add Surge Protection SPD Type 2*
	Communication Protocol	S2W & OCPP 1.6 JSON
	Language Menu	Greek, English **
	User Identification	RFID
Connectivity	Ethernet or WiFi or GSM	
<b>Charging</b>	Time	1.5-2 hours
<b>Installation</b>	Circuit Breaker Protection	Grid MCCB 40A
	Level of Grid Power Supply	No 3 - Maximum Agreed Power 35kVA 3-Phase from Network Operator ***
	ATEX zones	Installation outside ATEX zones
	Grid Substation	Not Applicable
	Cable Cross Section	5x10mm <sup>2</sup> (cable length up to 100m), 5x16mm <sup>2</sup> (cable length up to 150m),

Availability for a bigger ground mounting base with appropriate space to host the energy meter from grid network operator (spare parts page).

- ⦿ All public charging stations have built in the protective devices and the MID energy meter.
- ⦿ Capability to install different menu language.
- ⦿ The needed level of grid power supply is calculated each time based on the power demands of the installation, especially from the loads of the installation added by the load of charger (22kW) and the simultaneity factor. The above example was based on a work installation where the already installed grid power supply was 3-phase and 15kVA and had to be upgraded to 35kVA in order to facilitate the charging station.

# ORION11C

Three-phase AC charging station for home or work.



DYNAMIC  
Load Management

MID



4.3" LCD



WiFi, Ethernet, GSM

SPD



S2W OCPP 1.6



RFID



Active  
Load Management

Charging Output: 1

Max. Output Power: 22kW

Display: LCD 4,3"

Ground or Wall Mounted Network Connection via: Ethernet or  
WiFi or GSM

High security communication protocol S2W and OCPP 1.6 JSON.

- > Surge Protection SPD Type 2
- > RCD Protection Type B with AC leakage detection of 30mA and DC leakage detection of 6mA, Circuit Breaker MCCB, Overvoltage and Undervoltage Protection, Overtemperature Protection.
- > Ground Loss Detection
- > MID energy meter
- > Load Management Capability



## ORION 22CG

With 5m Mode 3 tethered cable Type 2

Built in 5m length, Mode 3, tethered cable with Type 2 outlet for easy and fast connection with the electric vehicle.



## ORION 22CS

With Type 2 Socket Outlet

Type 2 Socket Outlet with protective cap



# ORION11C

## TECHNICAL SPECIFICATIONS

<b>AC Input Characteristics</b>	AC Input Voltage	400 VAC $\pm$ 10%
	Input Type	3P + N + PE
	AC Input Current	16A /phase
	Frequency	50/60Hz
<b>AC Output Characteristics</b>	AC Output Voltage	400VAC
	Power	11 KW (Upgradable to 22KW)
	AC Output Current	16 A / phase
<b>Weight</b>	Wall base	With tethered cable 18,9kg, With socket outlet 17,2kg
	Ground Base	With tethered cable 60,6kg, With socket outlet 58,9kg
<b>Electronic Parts</b>	Energy Meter	MID certified 3-Phase energy meter*
	Protective Devices	Overvoltage (OVP) & Undervoltage (UVP) Protection
		Ground Loss Detection
		Overtemperature Protection (OTP)
		Capability to add RCD (Residual Current Protection) Type B with AC leakage detection 30mA and DC smooth Current detection 6mA*
		Surge Protection SPD Type 2*
	Communication Protocol	S2W & OCPP 1.6 JSON
	Language Menu	Greek, English **
User Identification	RFID	
Connectivity	Ethernet or WiFi or GSM	
<b>Charging</b>	Time	3-4 hours
<b>Charging</b>	Circuit Breaker Protection	Grid MCCB 20A
<b>Installation</b>	Level of Grid Power Supply	No 1 - Maximum Agreed Power 15kVA 3-Phase from Network Operator ***
	ATEX zones	Installation outside ATEX zones
	Grid Substation	Not Applicable
	Cable Cross Section	5x6mm <sup>2</sup> (cable length up to 100m), 5x10mm <sup>2</sup> (cable length up to 180m),

Availability for a bigger ground mounting base with appropriate space to host the energy meter from grid network operator (spare parts page).

- ⦿ All public charging stations have built in the protective devices and the MID energy meter.
- ⦿ Capability to install different menu language.
- ⦿ The needed level of grid power supply is calculated each time based on the power demands of the installation, especially from the loads of the installation added by the load of charger (11kW) and the simultaneity factor. The above example was based on a work installation where the already installed grid power supply was 3-phase and 15kVA and had to be upgraded to 35kVA in order to facilitate the charging station.



# PRISMA

SERIES



# PRISMA 2x11kW

Three-phase AC public charging station.



4.3" LCD



WiFi, Ethernet, GSM



MID



DYNAMIC  
Load Management



S2W OCPP 1.6



RFID



SPD



Active  
Load Management

**Charging Output: 2**  
**Max. Output Power: 22kW**  
**Display: 2xLCD 4,3"**  
**Ground or Wall Mounted Network Connection via:**  
Ethernet or WiFi or GSM

High security communication protocol S2W and

**Surge Protection SPD Type 2,**  
**RCD Type B Protection**  
**with AC leakage detection of 30mA and DC**  
**leakage detection of 6mA per output,**  
**Circuit Breaker MCCB per output,**  
**Overvoltage and Undervoltage protection.**  
**Overtemperature protection,**  
**Ground Loss Detection**  
**MID energy meter per output**  
**Load Management Capability**



## PRISMA 2x11CG

With 2x5m Mode 3 tethered cable Type 2

Built in 2x5m length, Mode 3, tethered cable with Type 2 outlet for easy and fast connection with the electric vehicle.

## PRISMA 2x11CS

With Type 2 Socket Outlet

Type 2 Socket Outlet with protective cap

# PRISMA 2x11kW

## TECHNICAL SPECIFICATIONS

AC Input Characteristics	AC Input Voltage	400VAC
	Input Type	3P + N + PE
	AC Input Current	32A/phase
	Frequency	50/60Hz
AC Output Characteristics	AC Output Voltage	400VAC
	Power	22 kW max
	AC Output Current	16A/phase in each output
Operating Conditions	Operating Temperature	-25 °C ± 50 °C
	Storage Temperature	-30 °C ± 70 °C
	Humidity	5% - 95% RH (without condensation)
	Installation Altitude	Up to 2000m
Construction	Enclosure	Galvanized Steel, Polycarbonate
	IP rating	IP55
	Mechanical Impact IK	IK10
	Display	LCD 4,3" for each output
	Outputs	Two outputs - Two Type 2 socket-outlets or Two Mode 3 tethered cable with Type 2 outlets (5m)
	Dimensions	510x605x410mm (widthxheightxdepth)
Electronic Parts	Energy Meter	MID certified 3-phase energy meter per output*
	Protective Devices	Overvoltage (OVP) & Underground (UVP) Protection
		Ground Loss Detection
		Overtemperature Protection (OTP)
		RCD (Residual Current Protection) Type B with AC leakage detection 30mA and DC smooth current detection 6mA
		Surge Protection SPD Type 2
	Communication Protocol	S2W & OCPP 1.6 JSON
	Language Menu	Greek, English**
	User Identification	RFID
Connectivity	Ethernet or WiFi or GSM	
Charging	Time	3-4 hours
Installation	Circuit Breaker Protection	Grid 40A
	Level Of Grid Power Supply	No 2 - Maximum Agreed Power 25kVA 3-phase from Network Operator***
	ATEX zones	Installation outside ATEX zones
	Grid Substation	Not Applicable
	Cable Cross Section	5x10mm <sup>2</sup> (cable length up to 120m), 5x16mm <sup>2</sup> (cable length > 120m)
Certification	Regulations	IEC EN 61851-1:2019, IEC EN 61851-1:2017, IEC 61851-21-2:2018, EN 62196-1:2014, EN 62196-2:2016, CE
Warranty	Warranty	2 years

It is manufactured with all protective devices built-in the enclosure of charger, the surge protection device SPD Type 2, the RCD Type B with AC current detection 30mA and DC leakage detection of 6mA.

Capability to install different menu language

The needed level of grid power supply is calculated each time based on the power demands of the installation, especially from the loads of the installation added by the load of charger (22kW) and the simultaneity factor

# PRISMA 2x22kW

Three-phase AC public charging station.



4.3" LCD



WiFi, Ethernet, GSM



MID



DYNAMIC  
Load Management



S2W OCPP 1.6



RFID



SPD



Active  
Load Management

Charging Output: 2  
Max. Output Power: 44kW  
Display: 2xLCD 4,3"  
Ground or Wall Mounted Network Connection via:  
Ethernet or WiFi or GSM

High security communication protocol S2W and

Surge Protection SPD Type 2,  
RCD Type B Protection  
with AC leakage detection of 30mA and DC  
leakage detection of 6mA per output,  
Circuit Breaker MCCB per output,  
Overvoltage and Undervoltage protection.  
Overtemperature protection,  
Ground Loss Detection  
MID energy meter per output  
Load Management Capability



## PRISMA 2x22CG

With 2x5m Mode 3 tethered cable Type 2

Built in 2x5m length, Mode 3, tethered  
cable with Type 2 outlet for easy and fast  
connection with the electric vehicle.

## PRISMA 2x22CS

With Type 2 Socket Outlet

Type 2 Socket Outlet with protective cap

# PRISMA 2x11kW

## TECHNICAL SPECIFICATIONS

AC Input Characteristics	AC Input Voltage	400VAC
	Input Type	3P + N + PE
	AC Input Current	64A/phase
	Frequency	50/60Hz
AC Output Characteristics	AC Output Voltage	400VAC
	Power	44 kW max
	AC Output Current	32A/phase in each output
Operating Conditions	Operating Temperature	-25 °C ± 50 °C
	Storage Temperature	-30 °C ± 70 °C
	Humidity	5% - 95% RH (without condensation)
	Installation Altitude	Up to 2000m
Construction	Enclosure	Galvanized Steel, Polycarbonate
	IP rating	IP55
	Mechanical Impact IK	IK10
	Display	LCD 4,3" for each output
	Outputs	Two outputs - Two Type 2 socket-outlets or Two Mode 3 tethered cable with Type 2 outlets (5m)
	Dimensions	510x605x410mm (widthxheightxdepth)
Electronic Parts	Energy Meter	MID certified 3-phase energy meter per output*
	Protective Devices	Overvoltage (OVP) & Underground (UVP) Protection
		Ground Loss Detection
		Overtemperature Protection (OTP)
		RCD (Residual Current Protection) Type B with AC leakage detection 30mA and DC smooth current detection 6mA
		Surge Protection SPD Type 2
	Communication Protocol	S2W & OCPP 1.6 JSON
	Language Menu	Greek, English **
	User Identification	RFID
Connectivity	Ethernet or WiFi or GSM	
Charging	Time	1.5-2 hours
Installation	Circuit Breaker Protection	Grid 80A
	Level Of Grid Power Supply	No 4 - Maximum Agreed Power 25kVA 3-phase from Network Operator ***
	ATEX zones	Installation outside ATEX zones
	Grid Substation	Not Applicable
	Cable Cross Section	5x16mm <sup>2</sup> (cable length up to 80m), 5x25mm <sup>2</sup> (cable length > 80m)
Certification	Regulations	IEC EN 61851-1:2019, IEC EN 61851-1:2017, IEC 61851-21-2:2018, EN 62196-1:2014, EN 62196-2:2016, CE
Warranty	Warranty	2 years+A1:C35

It is manufactured with all protective devices built-in the enclosure of charger, the surge protection device SPD Type 2, the RCD Type B with AC current detection 30mA and DC leakage detection of 6mA.

Capability to install different menu language

The needed level of grid power supply is calculated each time based on the power demands of the installation, especially from the loads of the installation added by the load of charger (44kW) and the simultaneity factor





# DC CHARGERS



# ORION DC

Three-phase DC charging station for public use



7" LCD



WiFi, Ethernet, GSM

MID



DYNAMIC  
Load Management



S2W OCPP 1.6



RFID

SPD

RCD

## Main Features:

- Maximum 3 charging outputs - all connectors can work simultaneously.
- DC output can share the power for most utilization.
- OCPP V1.6Json (will be updated to V2.0).
- Application of Load Balancing to avoid over capacity within a station.
- AC-DC modules inside with EMC class B and lower impact on grid.
- Maximum 95.49% power efficiency for energy-saving.

## Advantages:

- 2 x CCS2 charging outputs or 1xCCS + 1 chademo output.
- Dynamic Load Management - Dynamic Load Management to avoid grid overload and improve energy efficiency in the installation.
- EMC Class B.
- Upgradable - Can be extended to higher output power.
- Emergency Button built in.
- Payment Methods - RFID/QR code/Credit or Debit card option.
- Noise Level - 55/60/65dB (adjustable fan speed to lower the noise level).
- Capability to add AC charging output of 22kW.



# ORION DC

## TECHNICAL SPECIFICATIONS

<b>Construction</b>	Dimension (WxDxH mm)	770mm x 885mm x 1886 mm
	Weight	360kg (includes tethered cables with CCS2, Chademo and Type 2 outputs, three power modules)
	Cable length	5m
	IP rating	IP54
	Cooling	Forced Air
<b>Input Characteristics</b>	Input Voltage	400+/-10% (360-440 Vac)
	Input Current for DC output	60kW-96A max @ 400Vac (ex.60kW)
	Input Current for AC output	22kW-32A max
	Power Factor	≥0.99 (load: 100%), ≥ (load: 50%-100%)
	Power Efficiency	≥95.49 Maximum efficiency
	THDi	≥5% 400VAC input Load ≥50%)
<b>Output Characteristics</b>	Output connector	"1 x DC-CCS2 + 1x CHAdeMO + 1 x AC-Type2 (Mode 4, IEC61851-24;IEC62196-3, JEVS G104) or 2xCCS + 1xAC-Type2 (Mode 3, IEC61851-1)"
	DC Output Voltage	CCS2 150-1000 Vdc (CHAdeMO 150-500 Vdc)
	DC Output Current	0-125A dc
	DC Output Power	20kW (per module)
	AC Output Voltage	400V AC
	AC Output Current	22kW-32A AC (max)
	AC Output Power	22kW (max)
	Current Ripple	≤1.5A @frequency 10Hz; ≤3A @frequency 500Hz; ≤9A @frequency 150kHz (Test condition @1000Vdc/20A, 300Vdc@66.7A)
	Voltage Ripple	Voltage Ripple (Peak-Peak) ≤ ±5V
<b>"User Interface and Control"</b>	Display	7" LCD touch screen
	Language	English
	User Identification	ISO/IEC14443 Type A & MIFARE RFID card
	Emergency Button	Emergency Stop Button (cuts off the Power supply)
<b>Communication</b>	Network Connection	Ethernet/Wifi/4g
	Protocol	OCPP1.6 (OCPP2.0 can be updated)
<b>Electrical Parts</b>	Electrical Protection	Over current, Over/Under Voltage, Over load, Residual Current Detection type B 30mA AC and 6mA DC, Surge Protection, Surge Protection, Short Circuit, Ground Fault Detection, Over Temperature
<b>Ambient Conditions</b>	Installation Latitude	<2000m
	Operating Temperature	-30°C ~ +70°C (derating less than 20% above 60°C)
	Storage Temperature	-40°C ~ +75°C
	Working Humidity	5% ~ 95% (non-condensing)
	MTBF	100,000 Hours
	UV protection	UV protection

# MAXICHARGER DC

60 - 240kW



27" LCD



4G, Bluetooth, Wi-Fi,  
Ethernet



Weather Resistance



S2W OCPP 1.6



RFID, PNC, Credit card,  
Mobile Payment



96% Peak Efficiency



Smart Charging



Flexible Hardware &  
Software Customization



21 Safety Monitoring Item



Easy to Install & Service

## Main Features:

### Fast Charging:

Up to 240 kW super fast charging. 200 km of range can be replenished in 10 min. Maximum 400 A output current, charging speed improved by up to 30%.

### Battery Detection:

Assess battery SOH and achieve battery safety pre-warning via analysis of real-time data from charger+ cloud+ vehicle.

### 27" Advertising Touchscreen:

The largest touch screen available among chargers with same charging power. Offer an additional channel to generate profit with the advertising display capability.

### Enhanced Compatibility:

Compatible with all vehicles of IEC standards. Charging success rate 10% higher than industry average.



# MAXICHARGER DC

## TECHNICAL SPECIFICATIONS

General Characteristics	Dimension (WxDxH mm)	1950x820x600mm (60kW-120kW), 1950x820x700mm (140kW-240kW)
	Operating temperature range	35°C ~ +55°C
	IP & IK rating	IP54; IK10
AC input Connection	Input Voltage	3-phase 400V AC±10%
	Earthing system	3P,N,PE
DC output Connection	Output power	60kW / 80kW / 100kW / 120kW / 140kW / 160kW / 180kW / 200kW / 220kW / 240kW
	Output voltage	150-950V
	Output current	CCS2: Standard: 200A; Optional 300A (Nominal), 400A (Peak) CHAdeMo: 125A or 200A
	Number of outputs	2*CCS2, or 1*CCS2+1*CHAdeMO; 1* AC socket (Optional)
	Peak efficiency	≥96%
"User Interface and Control"	Display	27 inch LCD Touch Screen
	User interface	GCV Charge APP; GVC Charge Cloud
	User authentication	APP, RFID card, Credit card (Optional)
Communication	Network Connection	4G, Bluetooth, Wi-Fi, Ethernet
	Protocol	OCPP1.6J (Can be upgraded to OCPP 2.0.1 later)
Software Update	OTA updates via web portal	
Certification and Standards	Safety and Compliance	EN 61851-1; EN 61851-23; EN 61851-21-2; ISO 15118 Plug & Charge
	Certification	EN 61851-1; EN 61851-23; EN 61851-21-2; ISO 15118 Plug & Charge CE, EMC Class A, Eichrechtskonform (Optional)
	Warranty	24 months, warranty extension possible







# Customization

On request, we can apply the coating and stickers of your choice (branding) on all available charging stations.



Green Vehicle Charger