

LED SOLAR ENERGY

One Green Step Ahead

Approved Value Added Partner
for Orbis EV Chargers



ORBIS
energía inteligente®

**VIARIS ELECTRIC VEHICLE CHARGERS
FOR RESIDENTIAL, COMMERCIAL &
PUBLIC ENVIRONMENTS.**

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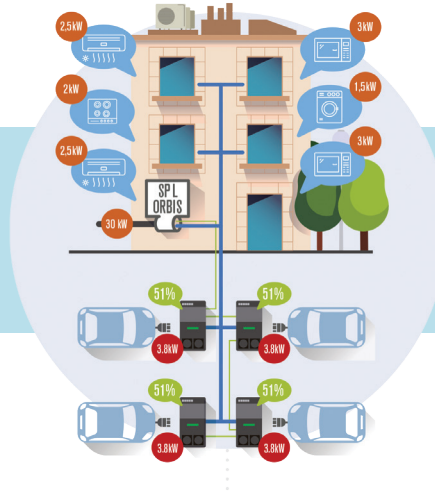
WHY CHOOSE ORBIS EV CHARGERS



VIARIS SOLAR

Harness the power of Solar Energy for EV Charging!

VIARIS SOLAR is specifically designed to integrate with any new or existing VIARIS UNI and COMBI+ EV chargers. Once installed, this environmentally sustainable EV solution allows you to harness the electricity generated from your PV system (solar panels).



LOAD MODULATION

The VIARIS UNI & COMBI+ EV chargers include load modulation as standard.

This smart system constantly increases or decreases the charging power to the electric vehicle according to the rest of the building power consumption.

In this way, you can achieve the highest recharge in the shortest possible time without exceeding the contracted power.



INSTALLATION COST

Choose VIARIS Smart EV chargers for easier and lower cost of installation.

The built-in RDC-DD (Residual Direct Current Detection Device) means you don't need to install an expensive RCCB Type B at the switchboard, you only need the standard type A, which saves you money.



COMPATIBILITY

ORBIS EV Chargers are compatible with all Type 2 EV Cars on the road (Type 1 versions available on request).



WARRANTY

All VIARIS Electric Vehicle Chargers come with a 3 year warranty from the date of installation.





VIARIS UNI & COMBI+

Ideal for commercial and residential environments with a range of configuration options

FEATURES	INCLUDED AS STANDARD	AVAILABLE OPTIONS
<ul style="list-style-type: none"> • Single and Dual outlet • Suitable for all EV and PHEVs vehicles • 7.4kW Single Phase • 22kW Three Phase • Charging Mode 3 • 5m or 10m tethered cable • Socket or tethered outlet 	<ul style="list-style-type: none"> • Charge Modulator • Leakage Current Detector • Touch or RFID activation • Maximum power limitation • WiFi communication and Ethernet port • IP 54 and high heat distortion temperature • ABS-PC heavy duty housing with IK10 impact resistance 	<ul style="list-style-type: none"> • Any combination of socket and tethered outlet available on COMBI+ • SPL Network Analyser for load modulation on larger installations • MID Certified Meter Reader • Green, Red and White frames available • 5 and 10 metre cables, Single Phase and Three Phase • 5 Pre-programmed RFID cards

IDEAL APPLICATIONS

- | | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| Companies | Vehicle Fleets | Family Homes | Communities | Factories |
|  |  |  |  |  |
| New Builds | Shopping Centres | Restaurants | Hotels | Hospitals |



PEDESTAL

Pedestal available on request

VIARIS UNI

VIARIS COMBI+

FRAME COLOURS

Customize the look of your VIARIS UNI EV Charger with frame colour options to suit different environments.



VIARIS UNI

The VIARIS UNI Smart EV Chargers single outlet have an attractive design, easy operation, trouble-free installation and are suitable for all EV and PHEVs in commercial and residential environments.



Code	Power Output	Hose Type	Cable Length	Communication	Model
OB94U220HA1	7.4 kW 32A	Type 2	5 m	Wifi	Single-phase
OB94U2A0HA1	7.4 kW 32A	Type 2	10 m	Wifi	Single-phase
OB94U220HA2	7.4 kW 32A	Type 2	5 m	Wifi & Ethernet	Single-phase
OB94U2A0HA2	7.4 kW 32A	Type 2	10 m	Wifi & Ethernet	Single-phase
OB94U220HA3	7.4 kW 32A	Type 2	5 m	Wifi & 4G	Single-phase
OB94U2A0HA3	7.4 kW 32A	Type 2	10 m	Wifi & 4G	Single-phase
OB94U220HA4	7.4 kW 32A	Type 2	5 m	Wifi, Ethernet & 4G	Single-phase
OB94U2A0HA4	7.4 kW 32A	Type 2	10 m	Wifi, Ethernet & 4G	Single-phase
OB94U2C0HA1	7.4 kW 32A	Type 2	with socket	Wifi	Single-phase
OB94U2C0HA2	7.4 kW 32A	Type 2	with socket	Wifi & Ethernet	Single-phase
OB94U2C0HA3	7.4 kW 32A	Type 2	with socket	Wifi & 4G	Single-phase
OB94U2C0HA4	7.4 kW 32A	Type 2	with socket	Wifi, Ethernet & 4G	Single-phase

Code	Power Output	Hose Type	Cable Length	Communication	Model
OB94U720HA1	22kW 3x32A	Type 2	5 m	Wifi	Three-phase
OB94U7A0HA1	22kW 3x32A	Type 2	10 m	Wifi	Three-phase
OB94U720HA2	22kW 3x32A	Type 2	5 m	Wifi & Ethernet	Three-phase
OB94U7A0HA2	22kW 3x32A	Type 2	10 m	Wifi & Ethernet	Three-phase
OB94U720HA3	22kW 3x32A	Type 2	5 m	Wifi & 3G	Three-phase
OB94U7A0HA3	22kW 3x32A	Type 2	10 m	Wifi & 3G	Three-phase
OB94U720HA4	22kW 3x32A	Type 2	5 m	Wifi, Ethernet & 3G	Three-phase
OB94U7A0HA4	22kW 3x32A	Type 2	10 m	Wifi, Ethernet & 3G	Three-phase
OB94U7C0HA1	22kW 3x32A	Type 2	with socket	Wifi	Three-phase
OB94U7C0HA2	22kW 3x32A	Type 2	with socket	Wifi & Ethernet	Three-phase
OB94U7C0HA3	22kW 3x32A	Type 2	with socket	Wifi & 4G	Three-phase
OB94U7C0HA4	22kW 3x32A	Type 2	with socket	Wifi, Ethernet & 4G	Three-phase

VIARIS COMBI+

The VIARIS COMBI+ Smart EV Chargers dual outlet have an attractive design, easy operation, trouble-free installation and are suitable for all EV and PHEVs in commercial and residential environments.



Code	Power Output	Hose Type	Cable Length	Communication	Model
OB94P220HA2	7.4 kW	Type 2	5 meter hose	Wifi & Ethernet	Single-phase
OB94P222HA2	7.4kW +7.4kW	Type 2	5 meter hose + additional 5 meter cable & connector	Wifi & Ethernet	Single-phase
OB94P22AHA2	7.4kW +7.4kW	Type 2	5 meter hose + additional 10 meter cable & connector	Wifi & Ethernet	Single-phase
OB94P22CHA2	7.4kW +7.4kW	Type 2	5 meter hose + type 2 outlet	Wifi & Ethernet	Single-phase
OB94P2A0HA2	7.4 kW	Type 2	10 meter hose	Wifi & Ethernet	Single-phase
OB94P2AAHA2	7.4kW +7.4kW	Type 2	10 meter hose + additional 10 meter cable & connector	Wifi & Ethernet	Single-phase
OB94P2ACHA2	7.4kW +7.4kW	Type 2	10 meter hose + type 2 outlet	Wifi & Ethernet	Single-phase
OB94P2C0HA2	7.4 kW	Type 2	Type 2 outlet	Wifi & Ethernet	Single-phase
OB94P2CCHA2	7.4kW +7.4kW	Type 2	2 x type 2 outlet	Wifi & Ethernet	Single-phase
OB94P220HA4	7.4kW	Type 2	5 meter hose	Wifi, Ethernet & 4G	Single-phase
OB94P222HA4	7.4kW +7.4kW	Type 2	5 meter hose + additional 5 meter cable & connector	Wifi, Ethernet & 4G	Single-phase
OB94P22AHA4	7.4kW +7.4kW	Type 2	5 meter hose + additional 10 meter cable & connector	Wifi, Ethernet & 4G	Single-phase
OB94P22CHA4	7.4kW +7.4kW	Type 2	5 meters + type 2 outlet	Wifi, Ethernet & 4G	Single-phase
OB94P2A0HA4	7.4kW	Type 2	10 meter hose	Wifi, Ethernet & 4G	Single-phase
OB94P2AAHA4	7.4kW+7.4kW	Type 2	10 meter hose + additional 10 meter cable & connector	Wifi, Ethernet & 4G	Single-phase
OB94P2ACHA4	7.4kW+7.4kW	Type 2	10 meters + type 2 outlet	Wifi, Ethernet & 4G	Single-phase
OB94P2C0HA4	7.4 kW	Type 2	Type 2 outlet	Wifi, Ethernet & 4G	Single-phase
OB94P2CCHA4	7.4kW+7.4kW	Type 2	2 x type 2 outlet	Wifi, Ethernet & 4G	Single-phase

VIARIS COMBI+

The VIARIS COMBI+ Smart EV Chargers dual outlet have an attractive design, easy operation, trouble-free installation and are suitable for all EV and PHEVs in commercial and residential environments.



Code	Power Output	Hose Type	Cable Length	Communication	Model
OB94P720KA2	22 kW	Type 2	5 meter hose	Wifi & Ethernet	Three-phase
OB94P722KA2	22 kW + 22 kW	Type 2	5 meter hose + additional 5 meter cable & connector	Wifi & Ethernet	Three-phase
OB94P72AKA2	22 kW + 22 kW	Type 2	5 meter hose + additional 10 meter cable & connector	Wifi & Ethernet	Three-phase
OB94P72CKA2	22 kW + 22 kW	Type 2	5 meter hose + type 2 outlet	Wifi & Ethernet	Three-phase
OB94P7A0KA2	22 kW	Type 2	10 meter hose	Wifi & Ethernet	Three-phase
OB94P7AAKA2	22 kW + 22 kW	Type 2	10 meter hose + additional 10 meter cable & connector	Wifi & Ethernet	Three-phase
OB94P7ACKA2	22 kW + 22 kW	Type 2	10 meter hose + type 2 outlet	Wifi, Ethernet	Three-phase
OB94P7C0KA2	22 kW	Type 2	Type 2 outlet	Wifi, Ethernet	Three-phase
OB94P7CCKA2	22 kW + 22 kW	Type 2	2 x type 2 outlet	Wifi & Ethernet	Three-phase
OB94P720KA4	22 kW	Type 2	5 meter hose	Wifi, Ethernet & 4G	Three-phase
OB94P722KA4	22 kW + 22 kW	Type 2	5 meter hose + additional 5 meter cable with connector	Wifi, Ethernet & 4G	Three-phase
OB94P72AKA4	22 kW + 22 kW	Type 2	5 meter hose + additional 10 meter cable & connector	Wifi, Ethernet & 4G	Three-phase
OB94P72CKA4	22 kW + 22 kW	Type 2	5 meter hose + type 2 outlet	Wifi, Ethernet & 4G	Three-phase
OB94P7A0KA4	22 kW	Type 2	10 meter hose	Wifi, Ethernet & 4G	Three-phase
OB94P7AAKA4	22 kW + 22 kW	Type 2	10 meter hose + additional 10 meter cable & connector	Wifi, Ethernet & 4G	Three-phase
OB94P7ACKA4	22 kW + 22 kW	Type 2	10 meter hose + type 2 outlet	Wifi, Ethernet & 4G	Three-phase
OB94P7C0KA4	22 kW	Type 2	Type 2 outlet	Wifi, Ethernet & 4G	Three-phase
OB94P7CCKA4	22 kW + 22 kW	Type 2	2 x type 2 outlet	Wifi, Ethernet & 4G	Three-phase

VIARIS SOLAR

Harness the power of solar energy.

The SOLAR modules can be externally fitted to any new or existing VIARIS UNI and COMBI+ to create the VIARIS SOLAR.

Once installed, this environmentally sustainable EV solution allows you to harness the electricity generated from your PV system (solar panels).

- Compatible with solar panels in any photovoltaic (PV) system
- Single Phase & Three Phase
- Din rail mounted
- RS485 port and Modbus protocol
- Three charging modes:
 - FULL SOLAR, HYBRID, MAX GRID



VIARIS SOLAR ADVANTAGES



SELECTING THE ENERGY MIX FOR CHARGING

It enables selecting the energy to charge the electric vehicle: 100 % SOLAR for a fully environmental charging, HYBRID, making the most of solar power, and if this is not enough, adding grid current to complement it, or SOLAR/GRID, for quick charging.



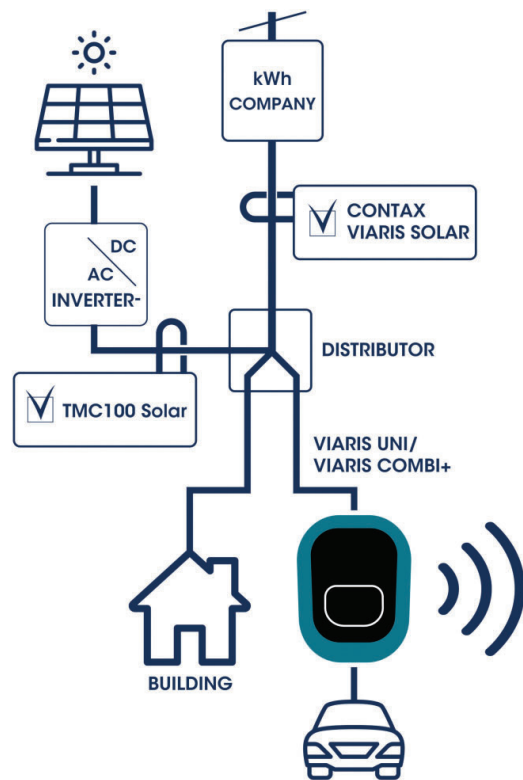
EASY IMPLEMENTATION

No need to replace an already installed charging station (VIARIS UNI or VIARIS COMBI+). JUST add VIARIS SOLAR to the already existing single-phase or three-phase photovoltaic installation.



ADAPTING CONSUMPTION TO ELECTRICITY TARIFFS

Time scheduling of up to 6 slots from Monday to Friday and another 6 slots at the weekend. For each slot, the ENERGY MIX can be selected and the maximum and minimum grid or solar power can be adjusted.



SIMPLE INSTALLATION

Just connect the VIARIS SOLAR METER between the utility meter and the charging station and, in turn, install the small TMC100 Solar accessory above the VIARIS charging station



LOAD MODULATOR

Minimise disruption. Maximise your charge.

All ORBIS EV chargers come with a load modulator. This smart system regulates the charging power according to the current energy consumption of the building.

- Avoid costs and complications associated with the increase in power usage for EV charging
- Eliminate the need to increase the power of the installation
- Take advantage of all available power
- Considerably reduce charging times
- Prevent circuit breakers tripping from over consumption
- Ideal for new and existing constructions
- Install a larger number of EV chargers with the SPL Network Analyser

SPL NETWORK ANALYSER

For larger installations with several charging points, Orbis have developed the SPL-Orbis system.

The SPL will temporarily reduce the power used to charge electric vehicles preventing power outages in the entire building whilst protecting against over consumption on the main incoming power supply.

- Allows up to 248 VIARIS charging points
- Charge up to 496 vehicles



CONTAX D-0643 BUS

HOW IT WORKS



When current consumption of the installation is **HIGH**, the available charging power is **REDUCED**.

	kW
Total Capacity	30
Current Consumption	14.5
Available Power	15.5



When current consumption of the installation **DROPS**, the available charging power is **INCREASED**.

	kW
Total Capacity	30
Current Consumption	7
Available Power	23



When current consumption of the installation is at a **MINIMUM** the available charging power will be at the **MAXIMUM**.

	kW
Total Capacity	30
Current Consumption	0
Available Power	30

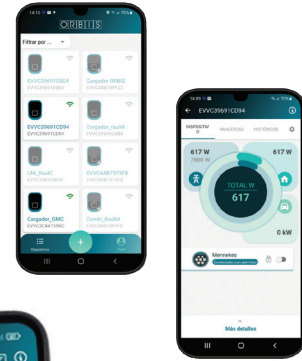
e-VIARIS APP

The free e-VIARIS app allows full remote management and monitoring of your VIARIS UNI and VIARIS COMBI+ Smart Chargers from your smartphone or tablet.

- Remote switching on and off
- Set preferred charging periods
- Charging status notifications
- Manage one or more VIARIS units
- Real-time information for property and electric vehicle energy consumption
- Record of property and vehicle consumption per hour, day or month
- Query the charging time and consumption of each vehicle to allocate energy costs
- Query consumption habits per week days or time slots
- Free download for iPhone and Android

For more insights and greater control download the free app from Google Play and the App Store.

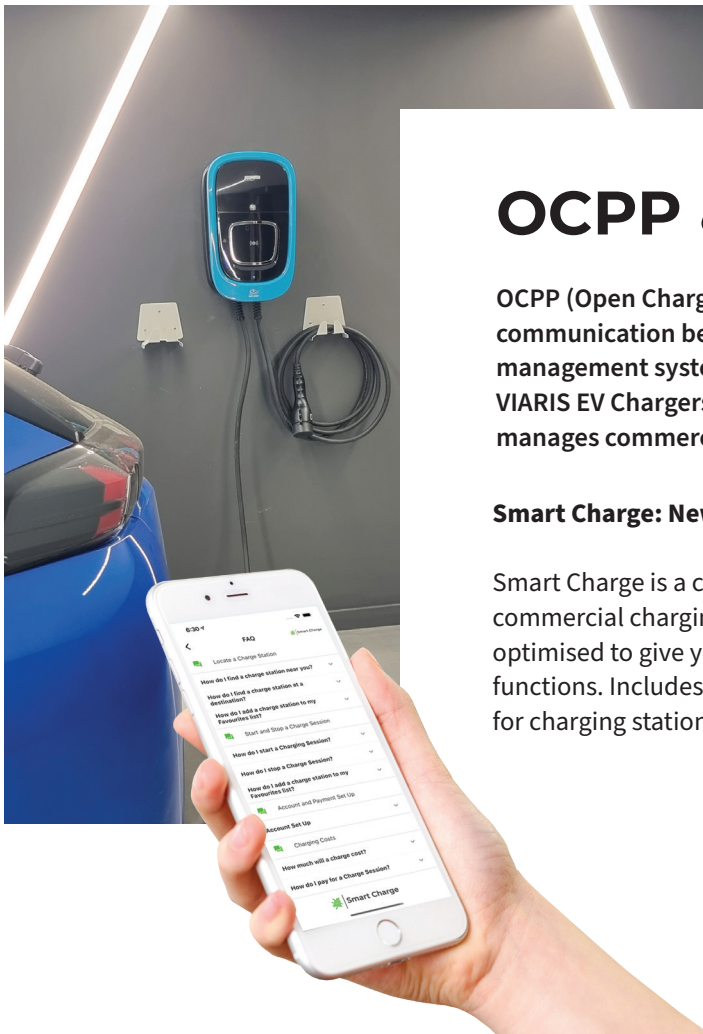
REMOTE ACCESS



REAL-TIME INFORMATION



FREE DOWNLOAD



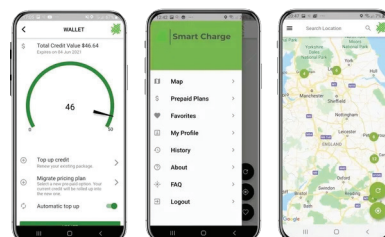
OCPP & 'SMART CHARGE'

OCPP (Open Charge Point Protocol) is an application protocol for communication between electric vehicle chargers and a central management system.

VIARIS EV Chargers are compatible with the 'Smart Charge' App which manages commercial charging networks for electric vehicles.

Smart Charge: New Zealand's Electric Vehicle Charging Network.

Smart Charge is a cloud-based software solution that manages commercial charging networks for electric vehicles. The software is fully optimised to give you and your business visibility across all EV charging functions. Includes a handy App for drivers and an extensive dashboard for charging station owners.



VIARIS TESTER

The EV charger test tool verifies charger performance by simulating connection to an electric vehicle. Guarantees correct operation before commissioning.

- Valid for 13, 20, 32 and 64 Amp chargers
- External charging socket for generation of real consumption (Max 8A)
- Presence and phase sequence indicator
- Simulates vehicle status (connected, disconnected, charging)
- Compliant with UNE-EN 61851-1 standard
- DC 6mA fault current test (RCD-DD)
- EV fault simulator
- Check electrical protection & grounding
- AC 30mA residual current test



VIARIS INSTALLATION

Require easy installation? No Problem.

For a fuss free, easy installation for your chosen EV charger, please contact us on the number provided below.



Contact LED Solar Energy Ltd for more information or to discuss your EV Charging requirements.

LED SOLAR ENERGY

One Green Step Ahead

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One Green Step Ahead

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