



EVONITY
ELEGANT POWER



THE **AC PILE** SERIES
Plug into the Future

THE AC PILE SERIES

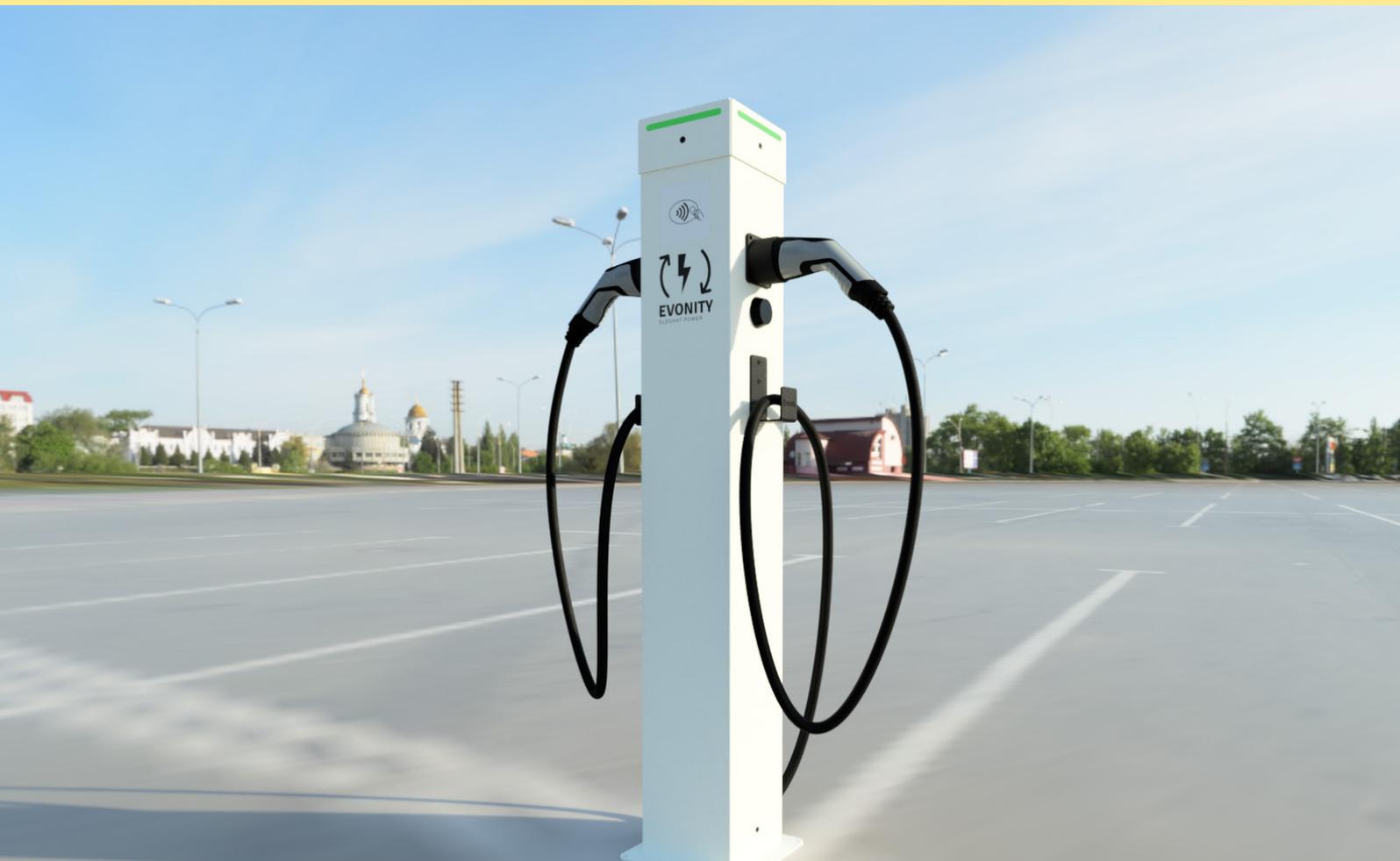
Experience the revolution of smart charging with Evonity's cutting-edge solutions. Welcome to the next-gen charging network with endless possibilities.

Revolutionize your energy infrastructure and brace for the imminent electric era with our innovative AC PILE series. Suited for a diverse array of venues – from residential communities to commercial zones, bustling shopping centers, and expansive fleet complexes – our intelligent charging stations offer unparalleled solutions.

Our esteemed models, including the PRO PILE and HD PILE, not only provide superior charging capabilities but also promise affordability and scalability. These groundbreaking designs cater to the increasing demand for electric vehicles and allow for the seamless expansion of your charging network as your requirements grow.

By choosing Evonity, you're making a conscious decision to embrace the future of energy consumption. We are not just a product; we're a partnership, offering comprehensive support and guidance as you navigate this transformative journey. Our goal is to help you reinvent your spaces into vibrant hubs of renewable energy, allowing you to seize a leadership role in the accelerating electric revolution.

With Evonity by your side, you'll be equipped to handle the growing demand for electric vehicle charging solutions. Join us in building a cleaner, more sustainable, and energy-efficient future. Together, we can create a world where the benefits of renewable energy are universally accessible and truly inclusive. Let us guide you towards a brighter, greener, and more electrified future.



Product specifications, availability, and images are subject to change without notice, and actual performance and appearance may vary depending on individual use and environmental conditions.

THE AC PILE SERIES



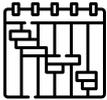
Multi-user access with RFID authentication

Seamlessly grant access through RFID authentication.



Turbocharged EV Charging

Unleash up to 44 kW adjustable power and advanced Load Balancing capabilities. Perfectly suited for e-truck charging.



Designed for seamless management and scalability

Built-in interface for individual charger management. However, for a more streamlined experience, users can opt to connect to the Evonity Portal.



Extensive connectivity options

Enjoy WiFi, Ethernet, and 3G/4G connectivity, along with OCPP 1.6j compatibility.



Built-in ready-to-use cable up to 7m (optional for the cable models)

Instant charging without the need for an additional cable, with the option for coiled cables¹.

¹ Coiled cables only available up to 22KW



THE AC PILE SERIES

Explore the optimal PILE configuration meticulously tailored to your unique sustainability and electrification objectives. Customize your pathway towards a more sustainable future by selecting the PILE model that seamlessly aligns with your distinct requirements, setting the stage for an energy-efficient future built on your terms.

All our products can be configured with several options like: Ethernet/3G-4G/Wifi connectivity, OCPP compliance, MID Certified energy meters for legally accepted and accurate invoicing purposes, RFID, Load Balancing, Charge scheduling, Solar charging, Over the air Updates.

AC Charger Model	PRO UNO S PILE	PRO DUO S PILE	PRO UNO C PILE	PRO DUO C PILE	HD UNO S PILE	HD UNO C PILE
Mounting						
Material	Coated Aluminium Alloy					
Size (HxWxD) mm	1200 x 165 x 165					
Power	1x22KW AC	2x22KW AC	1x22KW AC	2x22KW AC	1x44KW AC	1x44KW AC
Connection						
AC power ¹	3PH+N 400V 32A	3PH+N 400V 64A	3PH+N 400V 32A	3PH+N 400V 64A	3PH+N 400V 64A	3PH+N 400V 64A
IP Rating	IP54					
RCD	DC 6mA / AC 30mA					
Load Balancing						
Ethernet						
Sim						
MID metering						
OTA						
RFID						
OCPP						
Solar ²						

¹ Single phase connection is also possible

² in combination with certain solar energy meters

Product specifications, availability, and images are subject to change without notice, and actual performance and appearance may vary depending on individual use and environmental conditions.

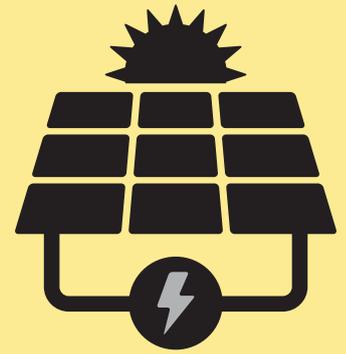
THE AC PILE SERIES

Seamless integration with the energy management solutions listed below.

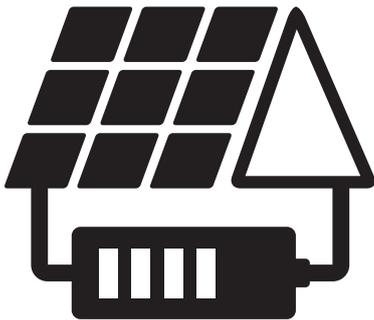
● Solar Charging

Charge your electric vehicle using solar power.

Harness the sun's power by charging your vehicle with surplus energy from solar panels. Avoid high energy costs from the electrical grid and enjoy 100% solar energy or a combination of solar power and grid electricity.



● MODBUS TCP



Thanks to our forward-thinking approach and Modbus TCP integration, our chargers can seamlessly connect with a variety of Energy Management Systems (EMS). This offers unmatched versatility, empowering users with optimal energy consumption and cost-saving solutions.

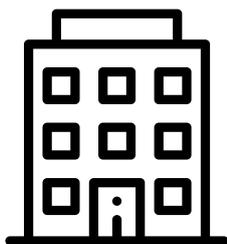
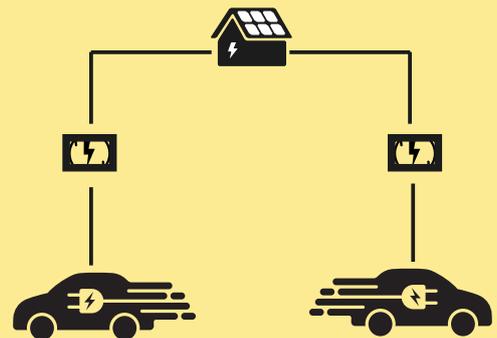
By integrating with multiple EMS, our chargers can adapt to diverse power infrastructures and grid conditions. From homes to commercial establishments, PILE AC EV chargers harmoniously align with your specific energy usage patterns and needs.

Not only does this ensure efficient charging for your EVs, but it also promotes overall energy sustainability within your environment.

The MODBUS TCP register documentation is available upon request, please contact support@evonity.com for this documentation package.

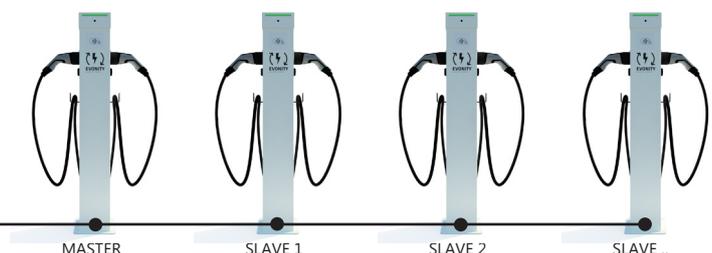
● Smart Power Distribution (e.g. Load Balancing) for individual EVs and multiple EVs

Charge your vehicle at the maximum possible speed, taking into account the real-time energy consumption of your building,



● Easy Setup and Installation

Experience the efficiency and adaptability of our Master-Slave configuration, a hallmark of Evonity's smart charging solutions. This system affords users an expedited and ergonomic setup, minimizing downtime and optimizing usability.

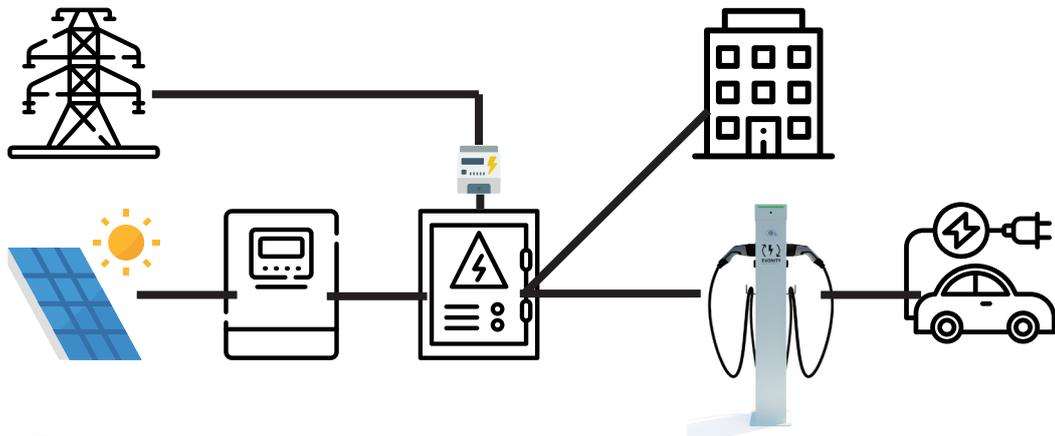


THE AC PILE SERIES

SOLAR CHARGE

Harness the power of the sun to energize your electric vehicles by utilizing solar charging enabled energy meters such as the Xemex SCC. This state-of-the-art device facilitates an eco-friendly and cost-effective charging solution, maximizing the benefits of your renewable energy sources. If you're considering using energy meters from different brands, we encourage you to contact us to explore the various possibilities we can accommodate.

Based on the pre-set parameters and the current, whether positive or negative, as determined by the energy meter, the controller can accurately assess the availability of sufficient solar power for charging the electric vehicle.

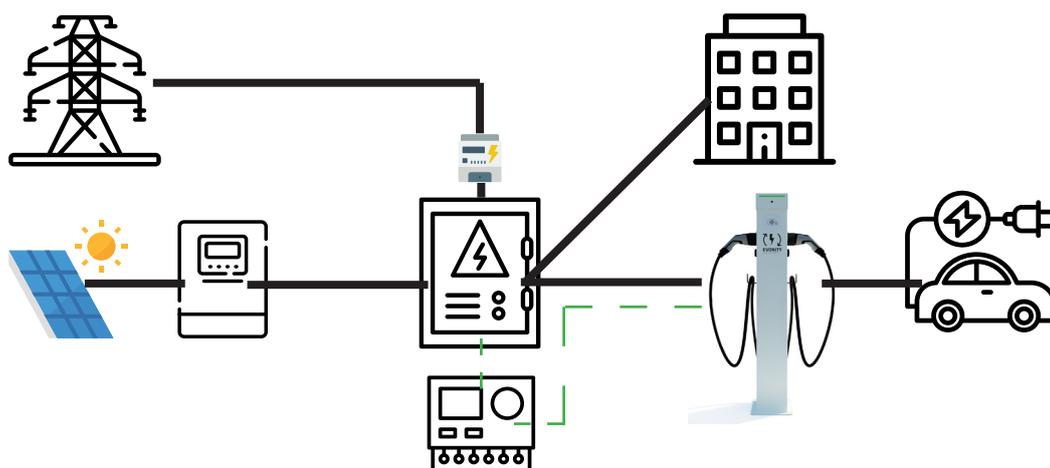


Product specifications, availability, and images are subject to change without notice, and actual performance and appearance may vary depending on individual use and environmental conditions.

THE AC PILE SERIES

MODBUS TCP - EMS INTEGRATION

Experience seamless Energy Management System (EMS) integration through the utilization of Modbus TCP, a proven industry-standard protocol. By employing this open architecture network protocol, you can effortlessly connect and communicate with a multitude of devices across your network, streamlining your EV charging infrastructure management. Modbus TCP allows for real-time monitoring and control, improving efficiency, and providing invaluable data for your operations. We encourage you to leverage this technology for advanced, holistic control over your energy consumption and distribution, enabling you to effectively meet your sustainability goals.



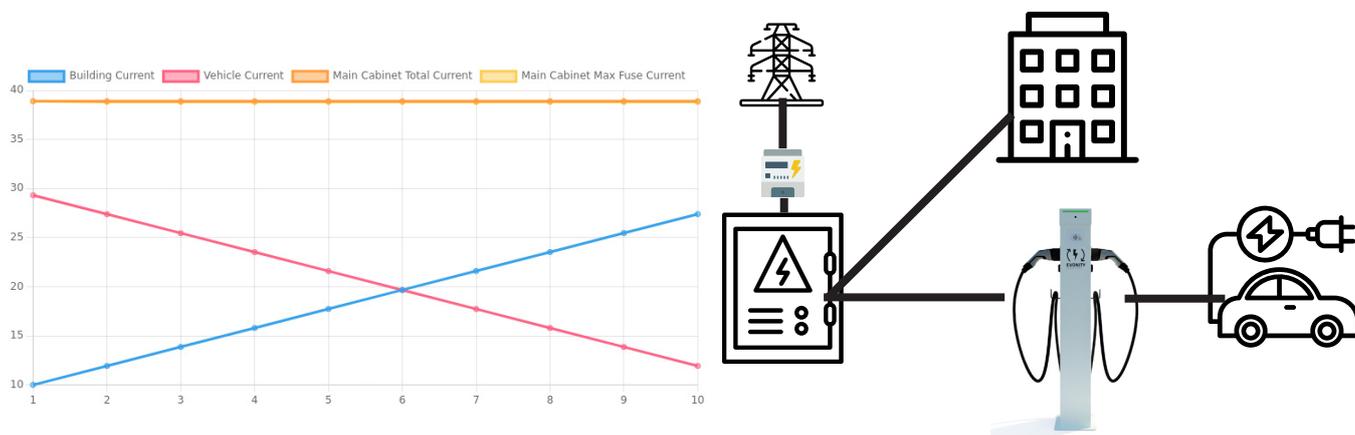
Product specifications, availability, and images are subject to change without notice, and actual performance and appearance may vary depending on individual use and environmental conditions.

THE AC PILE SERIES

LOAD BALANCING

For instances that do not involve a solar panel installation, traditional energy meters can be effectively utilized. We recommend using the Eastron SDM630, an industry-trusted device known for its reliability and compatibility. However, if you're considering alternative energy meters that share the same Modbus RTU registers as the Eastron SDM630, they are also likely to be compatible with our system. We encourage you to reach out to us with any queries or clarifications regarding different energy meter usage.

The smart use of energy meters in our system provides a robust foundation for load balancing. This crucial feature ensures the even distribution of power amongst the connected electric vehicles. By analyzing the inputs from the energy meter - which include current - , our charger can accurately charge the connected EVs within the limits of the main fuse and set parameters. This intelligent management optimizes power usage and supports an efficient, cost-effective charging solution.



Product specifications, availability, and images are subject to change without notice, and actual performance and appearance may vary depending on individual use and environmental conditions.

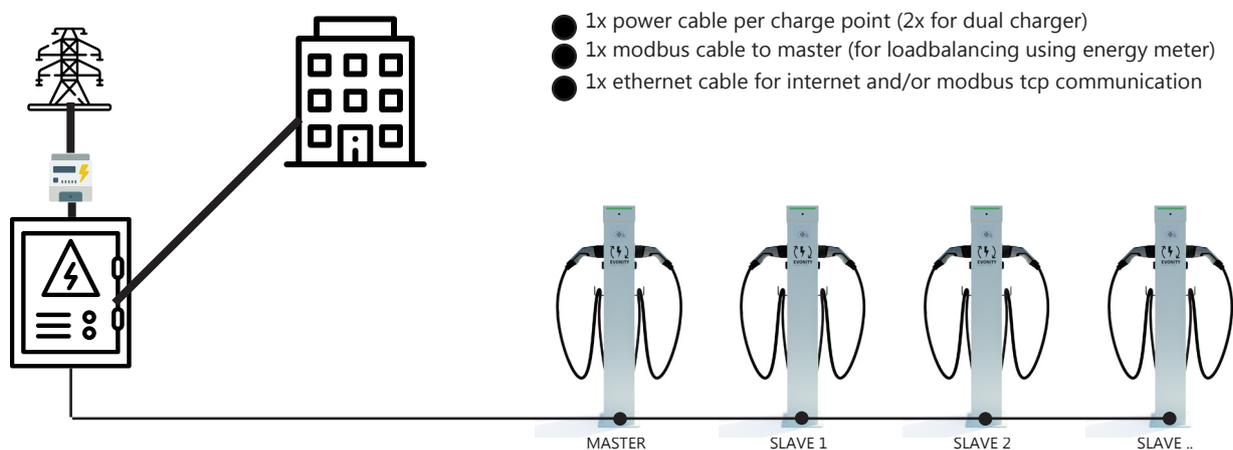
THE AC PILE SERIES

SETUP & EASY INSTALLATION

Evonity offers a Master-Slave setup for efficient management of multiple EV chargers. Each charger maintains its individual power supply sourced from the primary electrical cabinet.

However, a single Ethernet cable is utilized to facilitate communication between the various chargers, simplifying the setup and reducing complexity. In this advanced network configuration, the first charger automatically assumes the role of the 'Master', orchestrating the communication within the cluster. The remaining chargers are automatically designated as 'Slaves', responding to the directives issued by the Master.

This streamlined configuration ensures seamless interoperability among the chargers while offering a user-friendly and efficient management solution.



THE AC PILE SERIES

CONTINUOUS DEVELOPMENT

At Evonity, we are firmly committed to continuous innovation, consistently enhancing our offerings with the development of new functionalities. Our valued customers are invited to stay abreast of these advancements by visiting our website at www.evonity.com. Join us as we relentlessly push boundaries in creating a more sustainable and efficient electric future.

CUSTOM BRANDING

We offer custom branding options including distinctive labeling and a range of RAL color choices, bringing a personal touch to our robust solutions. These personalized options are available based on the quantity of your order. For further information or to discuss your unique requirements, please do not hesitate to reach out to us at Evonity.

SPECIFIC PROJECT QUESTIONS?

We welcome our customers to reach out to us with specific requirements concerning their electric vehicle (EV) projects. Whether you need expert advice or assistance in optimally integrating our solutions into your initiatives, the Evonity team is at your disposal. Together, we can design a path that best suits your unique EV objectives.



Product specifications, availability, and images are subject to change without notice, and actual performance and appearance may vary depending on individual use and environmental conditions.

THE AC PILE SERIES

Product specifications

GENERAL

OPERATING TEMPERATURE:	-25°C / +40°C
RELATIVE HUMIDITY:	5% / 95%
ELECTRICAL SAFETY CLASS:	I
DEGREE OF PROTECTION:	IP54
MECHANICAL IMPACT:	IK10

ELECTRICAL

CHARGING CAPACITY:	22kW – 44kW
NOMINAL VOLTAGE ¹ :	3PH+N 400VAC +/- 10%
NOMINAL CURRENT:	32A – 64A
NOMINAL FREQUENCY:	50Hz
CONNECTION TYPE:	TYPE 2
AC POWER CABLES (PER CHARGING POINT):	5G6mm² (for 32A) - 5G16mm² (for 64A)
RESIDUAL CURRENT DETECTION:	AC 30mA / DC 6mA
SHORT-CIRCUIT PROTECTION:	EXTERNAL REQUIRED
<u>GROUND FAULT CIRCUIT INTERRUPTER:</u>	EXTERNAL REQUIRED

¹ Single phase connection is also possible

COMMUNICATION

CONNECTIVITY:	WIFI, ETHERNET, 4G
COMMUNICATION PLATFORMS:	EVONITY / OCPP1.6J

Flexible design and modularity

With the current logistics issues regarding the global chip problem and past pandemic, we are equipped to modify our used chipsets blazingly fast and act accordingly to the market need and demand. Both hardware and software is developed in-house in Belgium making us much more agile in development and future upgrades.

Need to know more?

Contact us at:  **sales@evonity.com**
 **+32 11 96 04 23**
 **+32 483 37 92 17**
 **www.evonity.com**



www.evonity.com

Copyright 2022, Evonity BV

Product specifications, availability, and images are subject to change without notice, and actual performance and appearance may vary depending on individual use and environmental conditions.