

**EVONITY**  
ELEGANT POWER



# THE T-PILE DISPENSER SERIES

Plug into the Future

# THE T-PILE DISPENSER SERIES

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

Prepare for the future of energy with our ground-breaking T-PILE series. Engineered to adapt to a variety of environments - residential communities, commercial spaces, bustling shopping centers, and large fleet complexes - our smart charging stations deliver unmatched solutions for your needs.

Our flagship models within the T-PILE series, exhibit not only impressive charging performance but also assure cost-effectiveness and scalability. These state-of-the-art designs answer the growing demand for electric vehicle compatibility and ensure the effortless expansion of your charging network as your demands evolve.

Choosing Evonity signifies your commitment to a forward-thinking approach to energy consumption. We don't merely offer a product; we extend a partnership, providing all-encompassing support and guidance as you transition towards a more sustainable future. Our objective is to assist you in transforming your spaces into dynamic hubs of renewable energy, positioning you at the forefront of the accelerating electric revolution.

With Evonity at your side, you're poised to meet the escalating demand for electric vehicle charging solutions effectively. Join us in shaping a cleaner, more sustainable, and energy-efficient tomorrow. Together, we can make the advantages of renewable energy accessible and inclusive for all. Allow us to navigate you towards a more luminous, eco-conscious, and electrified future.



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## Multi-user access with RFID authentication

Seamlessly grant access through RFID authentication.



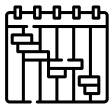
## Plug-and-Charge Ready (PnC)

Seamlessly grant access through EVID authentication.



## Turbocharged EV Charging

The T-Pile is configurable up to 400KW DC Charging Power per charging point, depending on the external power cabinet. Each charging point can be upgraded above 400kW when the new MCS technology is officially released.



## Designed for seamless management and scalability

Our DC dispensers are manageable using the cloud based Evonity Cloud backend system.



## Extensive connectivity options

Enjoy WiFi, Ethernet, and 3G/4G connectivity (optional 5G), along with OCPP 1.6j and OCPP 2.0.1 compatibility.



## EMS Integration with MODBUS TCP

Can be integrated into existing or new energy management systems using Modbus TCP



## Future proof

Our DC dispensers are modular designed and built. Which gives you the possibility to upgrade with new functions, both with soft and hardware in the future.



## Advanced Loadbalancing

















Different loadbalancing techniques are available, ranging from static, energy meter but also advanced EMS loadbalancing.



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**Discover the ideal T-PILE configuration, precisely crafted to align with your specific sustainability and electrification aspirations. Personalize your journey towards a more sustainable future by choosing the T-PILE model that best complements your distinct needs. This paves the way for a future where energy-efficiency is realized according to your unique vision.**

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, Payment terminal integration,...

DC Charging Dispenser Model	T-PILE Series					
Mounting						
Material	Coated Aluminium Alloy and Steel combination					
Size (HxWxD) mm	2230 x 510 x 200					
Power	Up to 400KW per charging point					
Connection						
Connection Details	1x CCS2	2x CCS2	1x CHAdeMO	1x CCS2 1x CHAdeMO	2x CHAdeMO	
RCCB	AC 30mA (for internal components)					
Load Balancing						
Payment Terminal <sup>1</sup>						
Sim / 4G / Ethernet						
MID metering <sup>2</sup>						
OTA <sup>3</sup>						
RFID						
OCPP						
Solar <sup>4</sup>						
LED Indicator lights						
E-stop circuit						
Screen	24 inch touch screen					

<sup>1</sup> Optional payment terminal

<sup>2</sup> Optional AC Metering, future upgradeable to DC MID Metering

<sup>3</sup> Including remote monitoring

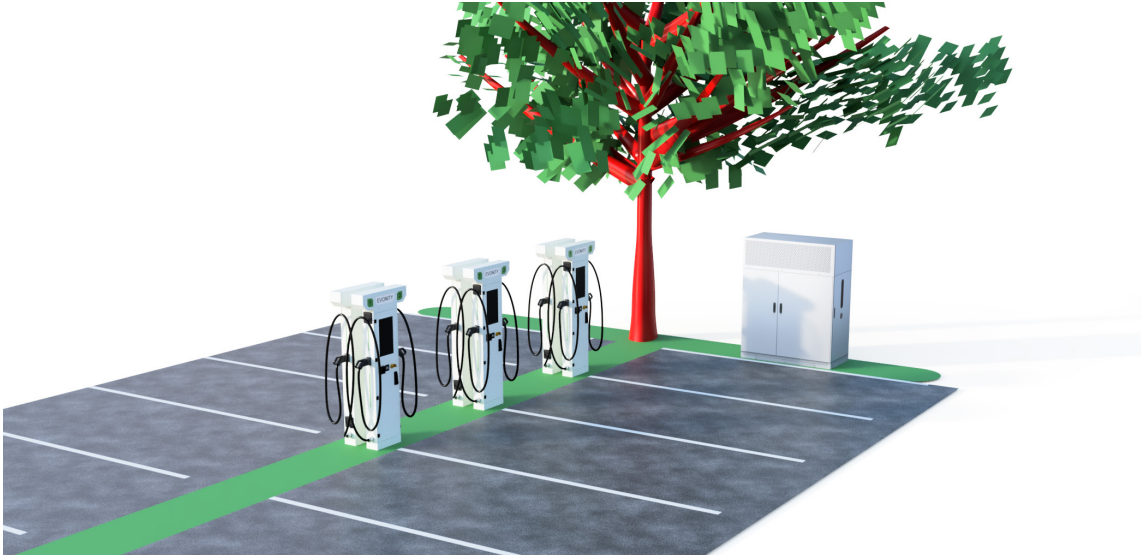
<sup>4</sup> In combination with certain solar energy meters and/or EMS system integration and in combination with power cabinet

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## Highlighted options

### DC Link power sharing technology

This option allows for the integration of multiple T-PILE dispensers in combination with a power cabinet. This unique setup enables dynamic power distribution to each charging point, effectively responding to the number of vehicles connected at any given time. This flexibility ensures efficient utilization of the available power, catering to your varying charging needs.



### CABLE MANAGEMENT SYSTEM

These systems enhance the ergonomic usability of the charging infrastructure and prevent the cable from making contact with the ground when not in use, ensuring additional convenience.

### PAYMENT TERMINAL

Evonity has the capability to incorporate a payment terminal directly into the dispenser. This offers users the convenience of making instant payments using a credit or debit card, preserving the familiar experience reminiscent of traditional 'gas station' transactions. Our goal is to seamlessly blend the comfort of the past with the technological advancements of the present.





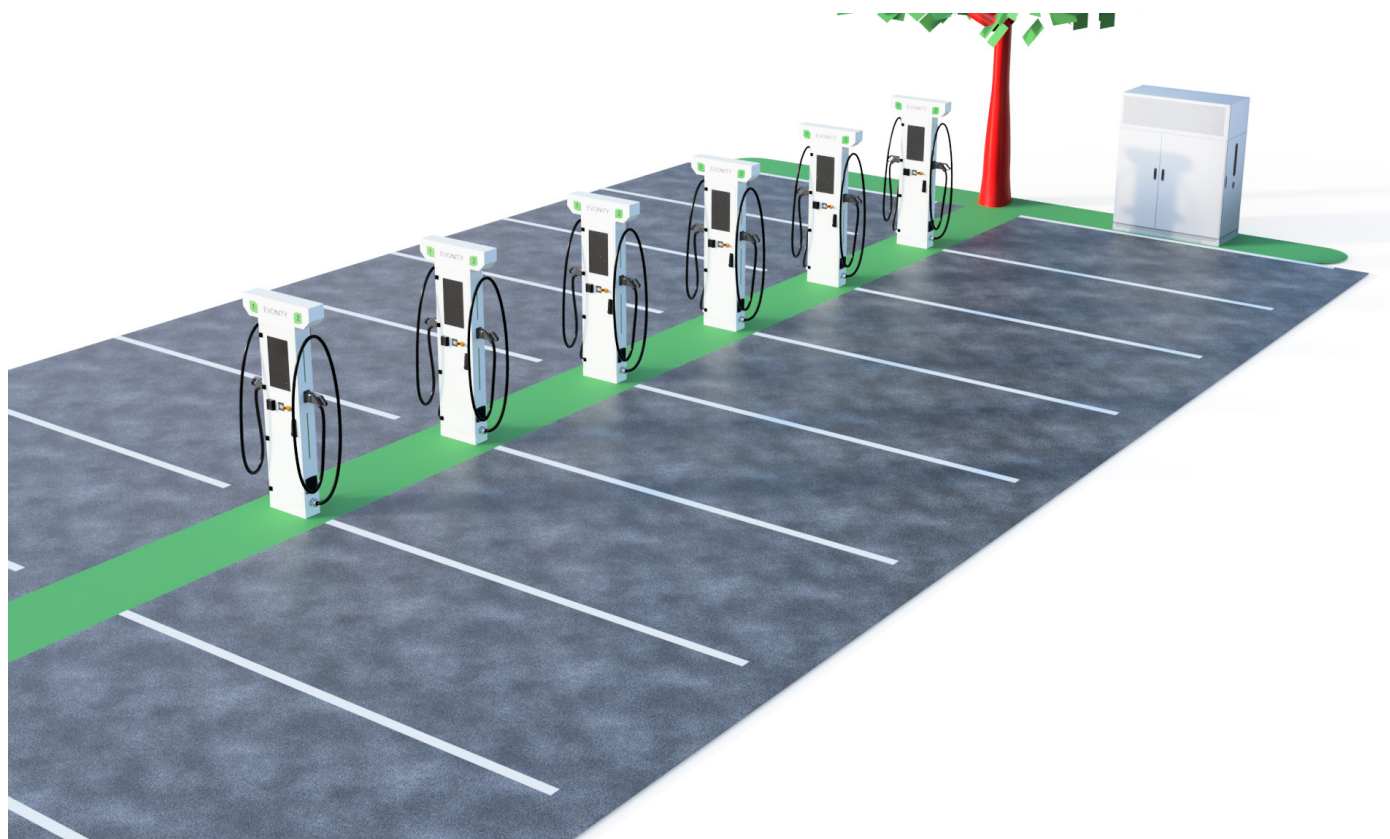
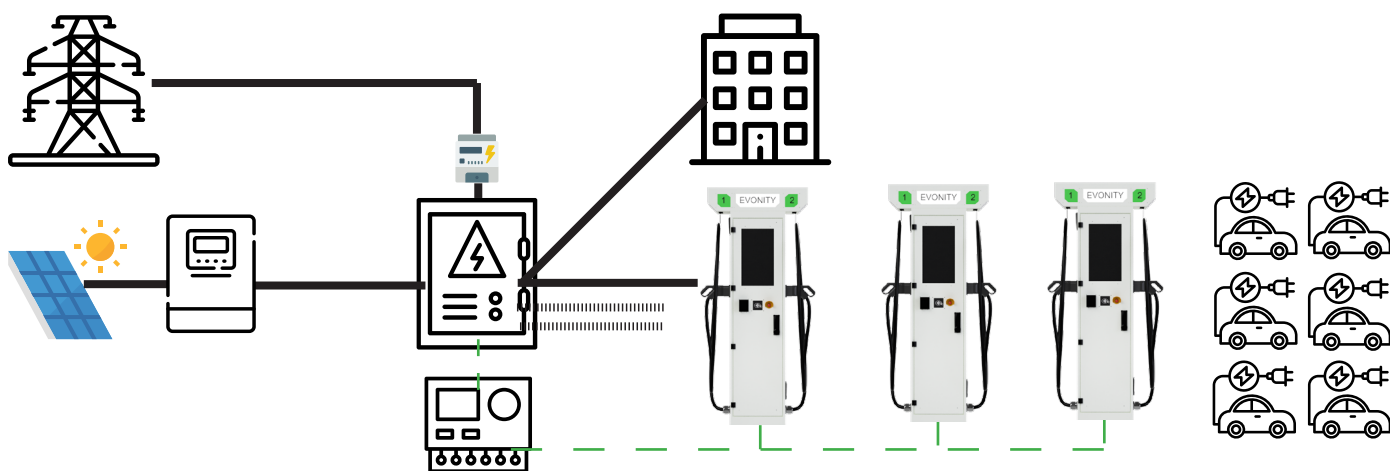
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## MULTI CHARGER DISPENSER SETUP AND INSTALLATION

Each T-PILE dispenser draws its power independently from the power cabinet, maintaining a dedicated power supply for efficient performance.

The real novelty lies in the communication between the charging dispensers, achieved via MOD-BUS TCP. This industry-standard protocol ensures smooth communication between the dispensers, the power cabinet and the EMS, minimizing complexity and making the setup straightforward.

In this innovative configuration, each dispenser interacts with the power cabinet and EMS, receiving instructions and sending feedback directly. This not only ensures effective load balancing but also offers an intuitive and efficient management solution, fostering smooth and coordinated operation across the charger network.



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## 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](http://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.



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## PRODUCT SPECIFICATIONS

### GENERAL

OPERATING TEMPERATURE:	<b>-25°C / +55°C (output derating &gt; 50°C)</b>
RELATIVE HUMIDITY:	<b>0% - 95% (non condensing)</b>
ELECTRICAL SAFETY CLASS:	<b>I</b>
DEGREE OF PROTECTION:	<b>IP54</b>
MECHANICAL IMPACT:	<b>IK10</b>
COOLING:	<b>Forced air cooling</b>
NOISE EMISSION:	<b>≤50 db</b>

### CERTIFICATIONS/STANDARDS

CE COMPLIANT:	✓
ISO 15118 COMPLIANT:	✓
OCPP 1.6J + OCPP 2.0.1	✓

### ELECTRICAL

CHARGING CAPACITY:	<b>Up to 400KW per charging point</b>
DC OUTPUT VOLTAGE:	<b>0 - 1000VDC</b>
DC MAX. OUTPUT CURRENT:	<b>Up to 375ADC per charging point <sup>1</sup></b>
NOMINAL VOLTAGE:	<b>1PH+N 230VAC +/- 10%</b>
NOMINAL CURRENT:	<b>16A</b>
NOMINAL FREQUENCY:	<b>50Hz</b>
CONNECTION TYPE:	<b>CCS2 <sup>2</sup></b>
CHARGING CABLE LENGTH:	<b>Standard 3,5m <sup>3</sup></b>
RESIDUAL CURRENT DETECTION:	<b>AC 30mA for internal components</b>
OVER LOAD PROTECTION:	✓
SHORT CIRCUIT PROTECTION:	✓
INSULATION MONITORING (DC + / - / PE)	✓
OVER TEMPERATURE PROTECTION:	✓

<sup>1</sup> 500A liquid cooled optional

<sup>2</sup> CHAdeMO optional

<sup>3</sup> 5m and 7m optional

### COMMUNICATION

CONNECTIVITY:	<b>WIFI, ETHERNET, 4G</b>
COMMUNICATION PLATFORMS:	<b>EVONITY / OCPP1.6J / OCPP2.0.1</b>



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## OPTIONS

- PAYMENT TERMINAL: ✓
- CAMERA SURVEILLANCE: ✓
- CONCRETE BASE FOR INSTALLATION: ✓
- COLOR CUSTOMIZABLE INCL. LOGO'S: ✓
- 5M CHARGER CABLE INSTEAD OF STANDARD 3M: ✓
- 7M CHARGER CABLE INSTEAD OF STANDARD 3M: ✓
- CHADEMO CONNECTOR (INSTEAD OF CCS2 CONNECTOR): ✓

## 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:
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  -  +32 483 37 92 17
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