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Siemens launches SICHARGE D, one of the most efficient fast charging DC electric vehicle chargers in Asia Pacific

- **Voltage ranges up to 1,000V and scalable charging power up to 300kW**
- **High efficiency for reduced operational cost at high power flow**
- **Dynamic distribution of charging power minimizes charging time**

Siemens has launched SICHARGE D, a new public fast charging and high-powered compact electric vehicle charger (IEC standard) providing one of the highest peak efficiencies on the market. It has scalable charging power and dynamic power sharing. A perfect fit for any cityscape, it is suited for highway and urban charging stations, city parking as well as shopping malls.

“Public fast charging networks are an essential factor in driving a sustainable future in eMobility in Asia Pacific. By ensuring that charging is as effortless and as fast as people need it to be, we’re making electric vehicles a viable option for more people. In addition, the SICHARGE D’s upgradeable and scalable fast charging technologies allows e-charging service providers and electric vehicle users to expand their investments step by step,” said Siddhant Gupta, Head of Future Grid for Siemens in Asia Pacific.

Featuring best-in-class technology, this smart charger is the winner of the world-renowned iF DESIGN Award 2021 in the categories of [User Interface \(UI\)](#) and [Service Design](#). For an improved user experience, an integrated 24-inch adjustable display allows SICHARGE D to be operated barrier-free and opens new opportunities for customers to use this flexible screen for tasks beyond interfacing

with the charging process such as digital menu boards, information kiosks or outdoor advertising.

The sleek and compact SICHARGE D has a scalable charging power from 160kW up to 300 kW, either from the start or through plug-and-play upgrades. Furthermore, the charger supports voltages between 150 and 1,000 volts (V) and currents of up to 1,000 amperes (A) across all DC outlets. This enables full power loads for future vehicles as well as the lower voltage charging rates demanded by today's mainstream vehicles. Additionally, SICHARGE D can be configured with either a CCS2 (Combined Charging System) or a CHAdeMO connector cable with varying capacities of up to 400A or a 500A liquid-cooled system.

With a constant efficiency of above 95.5 percent and a peak efficiency of 96 percent, the new SICHARGE D ensures that almost all the generated electricity reaches the car to be charged. For charging service providers and electric vehicle users, this means reduced operational costs. In addition, the charger allows an easy upgrade of charging power to meet future technological developments: Even if the charging capacities of most electric vehicles are still limited today, they will be able to accept higher charging power in the future and demand higher voltage ranges.

Although the number of electric vehicles is growing, today's investments in infrastructure are challenging. With SICHARGE D, charging service providers and electric vehicle users will be able to time their investments according to market demands as the option to expand the charger with up to two external dispensers to charge up to five cars in parallel will be possible in the future. The standard configuration will have two DC and one AC outlet housed in a compact design to optimize parking spaces.

The new charger combines all these features with dynamic parallel charging. That means, it accounts for the individual power demand of each connected car and automatically adapts the charging process to the electric vehicle's battery technology and charging status. This optimizes charging time as the connected cars get the maximum power they need without any additional manual intervention.

To ensure maximum uptime and highest availability of the charger, digital connected services is included in individual service contracts with customers. These services

range from preventive and corrective maintenance, remote firmware updates, spare parts, support, and consulting as well as training.

To find out more about SICHARGE D, watch the recording of the virtual launch in Asia Pacific [here](#).

More about Siemens eMobility: www.siemens.com/electromobility

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About Siemens

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. Active around the world, the company focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process and manufacturing industries. Siemens brings together the digital and physical worlds to benefit customers and society. Through Mobility, a leading supplier of intelligent mobility solutions for rail and road transport, Siemens is helping to shape the world market for passenger and freight services. Via its majority stake in the publicly listed company Siemens Healthineers, Siemens is also a world-leading supplier of medical technology and digital health services. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power that has been listed on the stock exchange since September 28, 2020. In fiscal 2020, which ended on September 30, 2020, the Siemens Group generated revenue of €57.1 billion and net income of €4.2 billion. As of September 30, 2020, the company had around 293,000 employees worldwide.

In 1911, Siemens opened its first sales office in Hong Kong. Since then, the company has committed to being a trusted technology partner and providing innovative solutions in Hong Kong & Macao. Siemens has provided integrated solutions for infrastructure development projects, including power substations for CLP Power in Hong Kong and CEM in Macao; cranes drives modernization for Hong Kong's Port; and building solutions for Tai Kwun in Hong Kong and City of Dreams in Macao. Powered by Siemens Advanta, Smart City Digital Hub was also setup to unlock the potential of digitalization in 2017. Further information is available on the Internet at www.siemens.com.hk.

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西門子推出 SICHARGE D – 亞太區最高效的直流電動車快速充電器之一

- 電壓可達 1,000V，可擴展充電功率達 300kW
- 在高功率流量下，充電能達至最高效率以降低營運成本
- 其靈活充電分配功能將汽車的充電時間縮至最短

西門子最近推出了一個全新公共快速及高功率緊湊型的電動車充電裝置，命名為 SICHARGE D。此裝置除了符合 IEC 標準，亦是現今市場上最高峰值效率的充電器之一。它具備擴展性充電和靈活性充電分配功能，適用於不同城市領域，如高速公路、市區內充電站、停車場以及購物中心。

西門子亞太區未來電網主管 Siddhant Gupta 先生表示：「公共快速充電網絡是推動亞太區電動出行持續發展的重要元素。透過提供一個既輕鬆又快速的充電體驗，電動車將成為更多駕駛人士之選。此外，SICHARGE D 所具備的功率擴充及升級功能，讓電動車充電服務供應商和電動車用戶能夠按步就班，逐步擴大投資。」

西門子 SICHARGE D 榮獲全球知名的 2021 年度 iF 設計獎，其頂尖科技分別於用戶界面和服務設計類別獲得業界肯定。為提供嶄新的用戶體驗，SICHARGE D 具備一個 24 英寸可調較的多功能顯示屏，客戶除了可輕鬆無阻地操作充電裝置外，更可拓展充電以外的功能，如提供電子菜單顯示屏、資訊站及戶外廣告板等。

SICHARGE D 包涵 160kW 至 300kW 的可擴展充電功率，用戶可從一開始選擇或隨插自動升級其充電模式。此外，該充電裝置能夠連接各類直流電源插座提供 150 至 1,000V 電壓，以及高達 1,000A 的電流。這不但能滿足現今主流車輛所需的低電壓充

電率，亦能滿足未來實現全功率負載的需求。另外，SICHARGE D 可以配置 CCS2（整合式充電系統）或容量高達 400A 或 500A 液冷系統的 CHAdeMO 連接器。

憑藉 95.5% 以上的固定效率及 96% 的峰值效率，SICHARGE D 能夠滿足大部分電動車的充電需求，有助充電服務供應商和電動車用戶降低營運成本。此外，為迎合未來電動車的技術發展，SICHARGE D 的充電功率亦易於升級，縱使目前大多數電動車的充電能力有限，但將來定必能夠接受更高充電率和電壓範圍。

儘管電動車的數量持續增長，但現時有關基礎建設的投資仍極具挑戰。為了優化停車空間及設備，SICHARGE D 標準配置包含兩個直流插座和一個交流插座，可以連接最多兩個外部分配裝置，及同時為最多五輛汽車充電。充電服務供應商和電動車用戶將可根據市場需求來安排他們的投資。

SICHARGE D 透過靈活並行的充電模式，將以上功能完美結合。西門子考慮到每輛電動車電力需求存在差異，SICHARGE D 能夠因應個別電池技術和充電狀態，自動分配電流以調節充電過程，從而將充電時間縮至最短，並同時達到最大充電功率。

為了確保 SICHARGE D 的最長正常運行時間和最高可用性，西門子與客戶簽訂的個別服務合同中包括網上連接服務，如預測性維修和事後維修、遙距韌體升級、備件、支援、諮詢和培訓等。

欲了解更多有關 SICHARGE D 的資訊，可[按此](#)重溫亞太區線上發布會。

欲了解更多電動出行資訊，請瀏覽 www.siemens.com/electromobility

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有關西門子

西門子股份公司是領先全球的科技企業，成立 170 多年來，一直以卓越的工程技術、創新、品質、可靠性及國際化著稱。西門子的業務遍及全球，集中於發電及輸電、樓宇的智能基建設施及供電系統，以及工業自動化及數碼化。西門子致力於促進虛擬世界和現實世界的融合，以造福客戶和社會。透過分開管理的西門子交通有限公司，西門子提供先進的鐵路及交通智慧出行解決方案並重塑全球客運和貨運服務市場。西門子亦持有已上市的西門子醫療股份公司主要股份，提供領先全球的醫療科技及數碼醫療服務。此外，西門子持有西門子能源(Siemens Energy) 的少數股份。西門子能源是全球輸電和發電領域的領導者並自 2020 年 9 月 28 日上市。於 2020 年財政年度（截至 2020 年 9 月 30 日），西門子的營業總額達到 571 億歐元，純利為 42 億歐元，全球擁有約 293,000 名員工。

1911 年，西門子於香港開設首個辦事處。多年來西門子致力成為香港及澳門值得信賴的業務伙伴，為兩地的基建設施提供創新的解決方案，包括：中電及澳電變電站及龍鼓灘發電廠的燃氣輪機；香港貨櫃碼頭起重機現代化；大館及新濠天地的樓宇解決方案等。西門子於 2017 年 12 月成立智慧城市數碼中心，以發掘數碼化潛力。欲了解更多資訊請瀏覽：siemens.com.hk。