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400 VDC IEC Connector System GP21 / GS21 is now UL approved

Santa Rosa, California, March 15, 2019 – SCHURTER launches the first UL approved IEC TS 62735-1 connector system, GS21 socket-outlet and GP21 plug. Rated up to 400 VDC, the connector system is designed to enable a worldwide standardized approach to DC power distribution in data centers.

The cost-intensive, failure-susceptible and wasteful transforming of AC to AC or AC to DC conversion can be avoided with a complete DC power architecture. From source to load, a DC architecture improves the overall quality of the power being supplied by virtue of its design. Problems with harmonics and harmonic distortions are eliminated. There is no longer the need for phase compensation, or coupling synchronization to different sources and networks, thereby increasing operational reliability and improving efficiency.



In the digital age, vast quantities of DC-powered devices are increasingly common. DC-powered consumer electronic devices, for instance, have enabled smaller designs with increased functionality, while reducing costs and increasing reliability. Similar demands are becoming prevalent in areas such as large-scale communication infrastructures, electric vehicle charging, and lighting to name a few. The emergence of industrialized demand for a worldwide common approach to DC power systems is therefore driving the establishment of standards.

Safety is key. The new IEC TS 62735-1 standard for DC power distribution requires a more complex design than traditional AC connector systems outlined in the IEC standard 60320. The DC connector systems must be designed considering the increased potential for arcing when disconnecting the DC power supply under load. The next generation standard IEC TS 62735-2, for the development of a DC connector system rated up to 5.2 kW, will require additional structural elements, referred to as a safety interlock (cold switch). The GP21 / GS21 has a permissible operating temperature range of -5 °C to +105 °C.

The GP21 rewirable plug accommodates a cable cross-section of between 0.75 mm²/18 AWG and 1.5 mm²/16 AWG. The GS21 socket-outlet offers mounting options for 1.5 mm or 2.0 mm panels. Terminals are quick connect 6.3 x 0.8 mm or PCB. Appliance-side DC components, according to IEC TS 63236, are also in development and expected to be released in 2021, when the standard is expected to be published.

Pricing for the connector set starts at under \$6.00 in quantities of 500 pieces. Delivery is stock to 8 weeks. The datasheet links can be found at www.schurter.com/en/datasheet/GP21 and www.schurter.com/en/datasheet/GS21. See also various resources at: [Landing Page Data Center](#), and [White Paper](#), [Product Video](#). For sales and product information, contact Cora Umlauf at (800) 848-2600 or by email at info@schurterinc.com.

About SCHURTER Inc.

SCHURTER is a progressive innovator and manufacturer of electronic and electrical components to industries worldwide. The Components Division is comprised of units: Circuit Protection, Connectors, Switches, and EMC Products, including measurement services as well as the Solutions unit, which offers customers a total interdisciplinary package. Division Input Systems offers complete touchscreen solutions including displays, housings and electronics. The two divisions focus on providing clean and safe supply of power and making equipment easier to use. These core competencies bring a high degree of innovation to SCHURTER's main markets Medical, Automotive, Energy, Data Communications, Avionics and Space, as well as the broader Industrial market.

SCHURTER meets its customers' highest demands through certified quality, environmental and safety management systems, ISO 9001, ISO 14001, OHSAS 18001, using highly developed Six Sigma processes. Processes certified according to the Automotive Standard IATF 16949: 2016 assure AEC-Q200 qualified protection devices, while processes certified to the most demanding of standards by the European Space Agency, ESA, are also in place to assure ESCC QPL listed for use in space flight applications. Additionally, SCHURTER components are suited for use in equipment according to IEC / UL 60601-1 and IEC / UL 60601-1-11, which outlines additional safety measures specific to medical equipment intended for use in the home. Components are also suitable for use in Data Communications equipment according to IEC / UL 60950.

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