# SOLID-STATE POWER DISTRIBUTION UNIT

SSPDU-270D-14-140-BXX

The SSPDU-270D-14-140-BXX is a high-power density, low-profile solid-state power distribution unit designed to efficiently manage and distribute input voltages ranging from 100 to 400 VDC across 14 independent output channels. Each channel is capable of delivering 10A and offers advanced features such as user-configurable I^2T protection, programmable overload protection, and controlled voltage rise and fall times to reduce electromagnetic interference and inrush currents.

• 14 Independent Channel Outputs
• User Adjustable I^2t Protection / Thermal Memory
• High Capacitance Load Control with Controlled Output Voltage Rise Time
• Channel Outputs with Rated Current of 10A
• Channel Paralleling Option for High Output Currents
• Cooling by Conduction
• Continuous Built-in Test
• Protection Override (Battle Mode)
• CAN and RS422/RS485 Interface
• Discrete Control Interface
• User Configuration Settings Stored in Internal Memory

VERTE Elektronik's SSPDU-270D-14-140-BXX series is designed as a high-power density, low-profile power distribution unit. This unit, which has 14 channel outputs, distributes the input voltage in the range of 100-400 V to the loads via semiconductor switches and provides overload and short circuit protection. The device can be controlled and configured via CAN and RS-422/485 communication interfaces, and status information can be displayed.
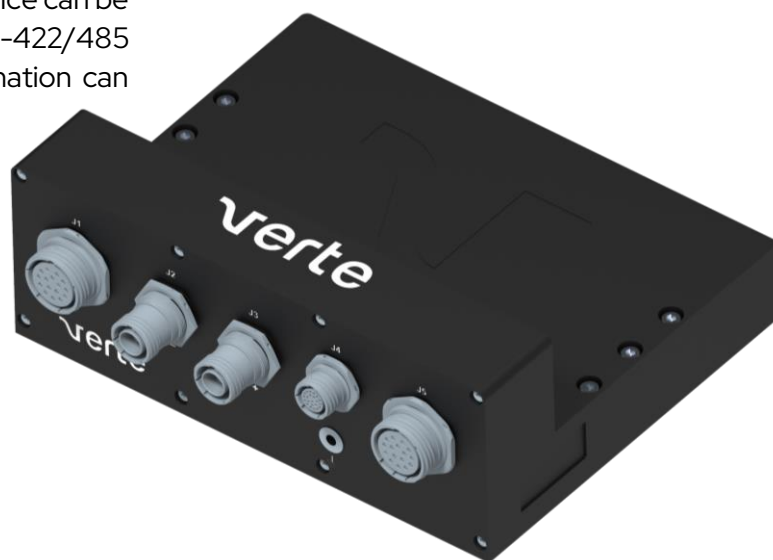
The SSPDU-270D-14-140-BXX series features 14 independent channel outputs, user-adjustable I^2T protection and thermal memory, high capacitance load control, and controlled output voltage rise time. With 10A nominal current channel output, the unit offers channel paralleling options for high current requirements. Equipped with safety features like emergency shutdown and battle override mode, this unit supports continuous built-in testing, and user configuration settings stored in internal memory. It boasts 20 times higher MTBF value compared to traditional electromechanical PDUs and requires minimal maintenance.