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Touch-Safe Saf-D-Grid® for Hazardous Voltage Applications

Anderson Power Products (APP), a leader in the design and manufacture of interconnect solutions, announces the launch of the Saf-D-Grid connector system for use in the direct connection of DC electronic devices to a DC micro grid. This connector system is ideal for use in DC servers or any device connecting directly to renewable energy sources such as Solar or Wind power. The Saf-D-Grid connector system meets international safety requirements for low voltage applications to 400 VDC including UL950 and IEC60950. The low profile panel receptacle is designed to fit the standard panel cut-out for IEC320 C14 outlets while providing touch safe connections up to 20 amperes at 600 VDC. The connectors are hot plug rated up to 700A in-rush current at 400 volts and shield the user from arc flash during un-mating. Additional safety features include a first mate, last break contact to provide ground and an integral latch to prevent connectors from accidental un-mating. The rugged polycarbonate housings are UL94 V-0 rated and plug power cords, over-molded to provide both strain relief during mating and un-mating, are available in 2 meter, 3 meter, and 5 meter lengths in both single and double ended styles.

Saf-D-Grid® Ultra Short Receptacle

Anderson Power Products (APP), a leader in the design and manufacture of interconnect solutions, announces the launch of the Saf-D-Grid Ultra Short Receptacle. The Saf-D-Grid Ultra Short Receptacle connection system protects the user from DC arcing during mating and unmating. This innovative design enables the safe connection of DC electronic devices to a DC micro grid powered by high efficiency DC sources. Saf-D-Grid meets international safety requirements for hazardous, low voltage applications per UL1977 and IEC 61984, as well as touch safety requirements of UL60950 and IEC60950. The new APP Saf-D-Grid Ultra Short Receptacle minimizes space requirements within the device and enables solder termination.

Rated for DC applications up to 600 volts and 20 amps, the APP Saf-D-Grid Ultra short receptacle is designed to replace the IEC320 C14 AC inlet connector. Having the same height and width as the C14 AC inlet, the APP receptacle snaps into the standard 19.9mm by 26.8mm panel cut out. The length of the receptacle is longer than a C14 inlet to provide touch safety, voltage clearance, and DC arc protection.

Saf-D-Grid® Ultra Short Receptacle

Anderson Power Products (APP), a leader in the design and manufacture of interconnect solutions, announces the Saf-D-Grid® Ultra Short Receptacle is now being manufactured in a halogen free, high temperature housing material to meet equipment manufactures' desire to offer eco-friendly devices. Saf-D-Grid® is a 25 amp 600 volt capable DC connector system which is size compatible with the IEC 320 C13 and C14 AC standard panel cut out. The Ultra Short Receptacle minimizes space requirements within the device and also allows solder termination to wires. Saf-D-Grid® is the only connector system this size that is UL rated for safe disconnect of a 400 VDC, 20 amp load.

The APP® Saf-D-Grid® is also the only connector with "Registered Product" status for the EMerge Alliance® standard for 380 volt (+/- 190) DC power distribution systems for use in data centers and telecom central offices. This connector system provides a critical link in the broad scale adoption of 380 VDC power distribution systems by providing a safe power interconnect for power supplies, power distribution units, and peripheral devices. Compared to best in class AC systems, industry estimates the following benefits for a 380 VDC power distribution architecture:

- 2 to 10 times more reliable
- 7 to 15% more energy efficient
- 10 to 33% less space required
- Up to 30% reduction in maintenance
- 6 to 10% lower CAPEX equipment costs
- Simplified integration of on-site energy generation and storage