

What is a 270 VDC SSPC?

Now, our cutting-edge power control units are in development for use in Megawatt Tactical Aircraft and Next Generation Air Dominance (NGAD) fighters. Leach's 270 Vdc SSPCs employ Silicon Carbide (SiC) MOSFETs, which can withstand higher voltage levels, ideal for power control applications requiring 270 Vdc.

What is HVDC solid-state power controller (SSPC)?

Abstract: 270V high-voltage direct-current (HVDC) power supply system is the preferred power supply scheme for multi-electric aircraft (MEA). In order to improve the intelligence and reliability of the power supply system, the HVDC solid-state power controller (SSPC) is gradually replacing the traditional mechanical protection device.

What is Leach 270 VDC SSPC?

Leach's 270 Vdc SSPC is designed for adaptability and scalability, offering a high degree of customization to meet specific application requirements. For example, the Secondary Power Distribution Unit (SPDU) can accommodate a varying number of power channels and support different current ratings, all programmable by the user.

What is DDC 270vdc SSPC (rp-28001000n0)?

Available as a standard off-the-shelf product, DDC's 270VDC SSPC (RP-28001000N0) offers significant time to market advantages, while eliminating the costs and risks associated with a custom developed solution.

What is a solid state power controller (SSPC)?

Solid State Power Controllers (SSPCs) have significantly altered the landscape of power management and distribution in aerospace applications. Moving away from traditional electromechanical relays and circuit breakers, SSPCs offer a level of previously unattainable precision and reliability.

How much voltage does a spdp10d270 have?

A 30 foot length of wire in free air will cause a transient voltage of about 10 Volts when the SPDP10D270 trips at an Instant Trip level of 80 Amps. At the rated load current of 10 Amps, the voltage transient will be less than 1 Volt.

270 Volts DC (260-280 Volts DC) Min/Max Normal Transients: 250/280 Volts DC at 40ms: Ripple Voltage: 6 Vpk maximum: Cooling: Self-cooled (Fan or Blast Air) or Free Convection Cooled Versions: Power: 270VDC Typical Range for ...

o AC PDUs--from power distribution panels to line replaceable units--using HARTMAN AC contactors with ratings to 500 amps per phase at 115/200 VAC, 400 Hz. o 28 VDC PDUs ...

Implementation of a Solid-State Power Controller for High-Voltage DC Grids in Aircraft. January 2015; ...

grid with a voltage level of ≈ 270 VDC or 540 VDC is implemented to supply the electrical ...

These Solid State Power Controller (SSPC) Modules are designed to operate without any heatsink requirements. They are microcontroller-based Solid State Relays rated ...

Bohemia, New York (March 2018) Data Device Corporation (DDC) introduces a new MIL-STD-704F compliant 12-channel, 270VDC, 150A Solid-State Power Controller (SSPC) offering programmability, system health diagnostic and ...

During the last 16 years there has been a growing usage of a third system using 270 VDC. The 270 VDC system for aviation was first defined in MIL-STD-704B 17 Nov. 1975. Battery systems in this voltage area had been utilized in ...

Feng, X.; Radun, A.: SiC based Solid State Power Controller, Applied Power Electronics Conference and Exposition, (APEC 2008) Twenty-Third Annual IEEE, 2008 Jan 2010 K Heuck

The performance of FCX Systems 270 VDC Power is flight line and production line proven - we are 270 VDC from the ground up. ... UL-508 Industrial Control Equipment ... Solid-State Frequency Converter for a Floating Dry ...

Solid State Power Management . Sensitron o 221 West Industry Court o Deer Park, NY 11729-4681 o Phone (631) 586 7600 o Fax (631) 242 9798 o World Wide Web - ...

270V high-voltage direct-current (HVDC) power supply system is the preferred power supply scheme for multi-electric aircraft (MEA). In order to improve the inte

are powered by a 40 Vdc power converter whose input is from the aircraft 270 Vdc bus. Power distribution to the 28 Vdc buses is via solid state power controllers (SSPCs). Charger ...

Unique microprocessor controller guarantees long lasting performance under all conditions; ... FCX solid-state power supplies provide regulated 28.5VDC power with minimal noise. The power supplies are equipped with an adjustable ...

Performance Measurement Accuracy better than 5% Total Module Current Capability of 238 Amps Nominal 48V Operation Controlled Rise/Fall Times Monitoring Load Currents Input ...

AREA Solid State Power Controller (SSPC) Modules combine the functions of a circuit breaker, including load monitor and I²t protection, in a small and cost effective plug-in ...

In MEA, 270 V and 28 V are typical bus voltage levels [4].As shown in Fig. 1 [10], a bidirectional dc-dc converter is indispensable for power flow between two bus bars.The ...

PDC's 12 channel solid state power controller (SSPC) board controls, protects, and continuously monitors up to 150A to 12 independent electrical system loads. Benefits. High Reliability 25x Improvement in MTBF, Compared with ...

The Solid State Power Controller (SSPC) and Remote Power Controllers (RPCs) are microcontroller based Solid State Circuit Breakers designed to be used in various hi-reliability applications. ... 28 VDC: 28 VDC: 28VDC - 600 VDC ...

power supplies can also be used successfully. With such a power supply system, both a DC source and DC load profile can be realised. TT& MS BV supplies 270Vdc power ...

The SSPC is a kind of smart solid-state electrical switch based on semiconductor power devices (such as MOSFETs, SCR, and IGBT) with functions such as inverse-time ...

SPDP03D270 0.9A to 3A 270 Vdc SPDP10D270 3.0A to 10A 270 Vdc SPDP03D375 0.9A to 3A 375Vdc SPDP10D375 3.0A to 10A 375Vdc Isolated Log ... Sensitron's Multi-Channel Solid ...

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