

What is a preferred power supply architecture for DSL applications?

A preferred power supply architecture for DSL applications is illustrated in Fig. 2. A push-pull converter is used to convert the 48V input voltage to +/-12V and to provide electrical isolation. Synchronous buck converters powered off of the +12V rail generate various low-voltage outputs.

What types of power systems are used in communications infrastructure equipment?

Communications infrastructure equipment employs a variety of power system components. Power factor corrected (PFC) AC/DC power supplies with load sharing and redundancy (N+1) at the front-end feed dense, high efficiency DC/DC modules and point-of-load converters on the back-end.

How to choose a power supply topology for a multi-output DSL converter?

Selection criteria for the power supply topology in multi-output DSL converters include requirements for performance (high efficiency and tight load and line regulation), simplicity, low cost and a small footprint with a low profile. High performance is achieved by selecting the appropriate topology and control circuit.

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Application Fields: The core application scenarios of this DC distribution panel are State Grid communication sites, including grid optical fiber communication base stations, power ...

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