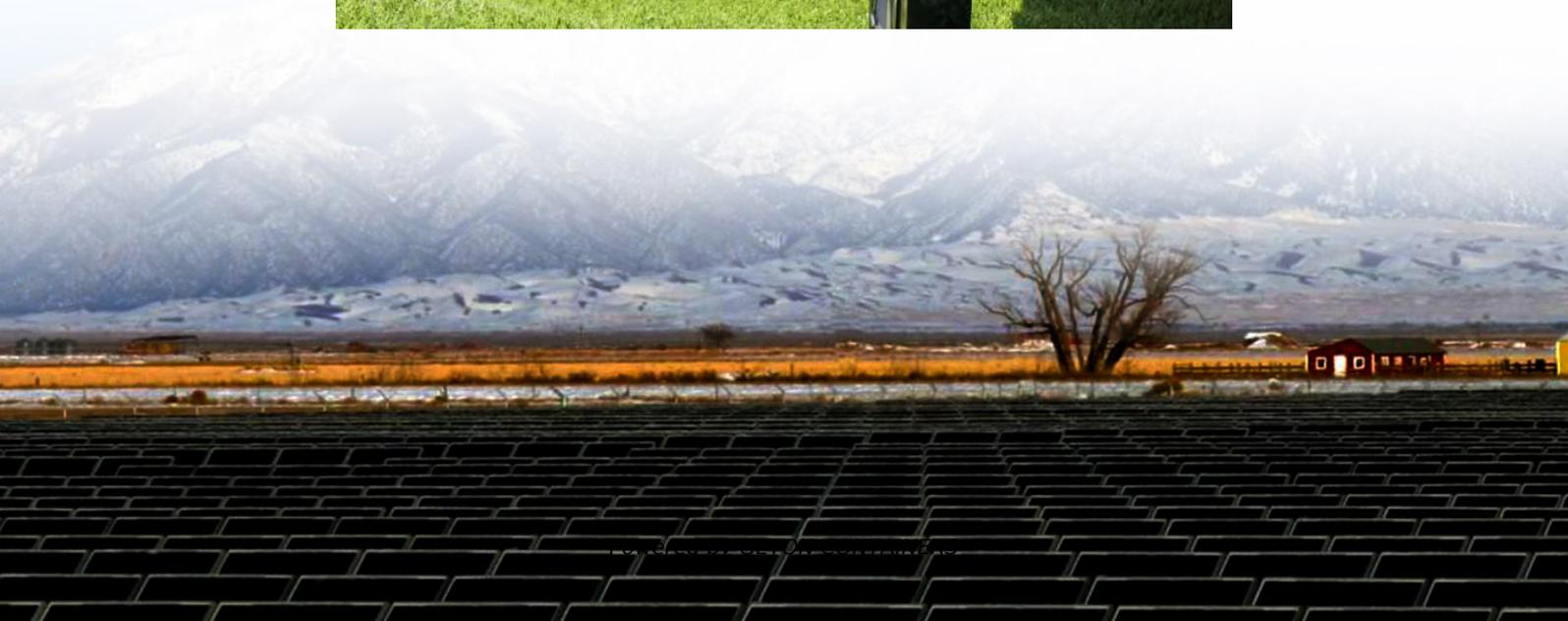


# Data Base Station Power Supply





## Overview

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What type of power supply is used in a data center?

Typical Data Center Power Supply Architecture In the LLC part of the circuit, 650 V MOSFETs are also commonly used The circuit maintains . ZVS (zero voltage switched) operation, as well as reduced turn-off currents, so losses are much lower, and the circuit can be operated at 100–500 kHz, allowing the transformer to be made smaller.

What are the requirements for a data center server power supply?

Servers must meet the Titanium standard, which maintains high efficiency even at 10% load. Figure 2 shows a typical specification taken from the Open Compute Project, which features a Titanium+ requirement for a 3.3 kW class power supply. Figure 2. Open Compute Project's Data Center Server Power Supply Standard (80 Plus Titanium).

Why do we need a WBG server power supply?

To meet the need for improved efficiency, lower operating and lower BOM costs, there is renewed interest in WBG (Wide Bandgap) solutions. The same can be said for the efforts to push Server power supplies to ever increasing levels of efficiency with minimal heat loss.

What is a typical power supply architecture?

Figure 3 shows a typical power supply architecture with its EMI filter, input bridge rectifier, a simple dual interleaved boost converter (PFC) with a 650 V / 750 V FET and SiC JBS (Junction-Barrier-Schottky) diode as well as a full-bridge LLC stage for the DC–DC converter. Typical switching frequencies of 65–150 kHz are used for the PFC stage.



## Data Base Station Power Supply

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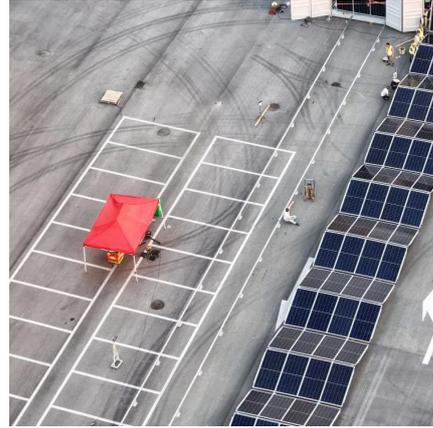


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