

Title: Power supply for 5g base stations in Laos

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What is 5G power supply?

The development of 5G networks brings new challenges for powering base stations. MPS has developed a powerful new power supply solution for 5G telecom applications that ensures stable and efficient power delivery, accurate current sensing, and highly efficient power factor correction to maintain a stable output voltage amid large load variations.

Where will 5G be available in Laos initially?

The 5G service will be initially provided in some areas of the capital Vientiane, including parts of Chanthabouly District and areas near the National University of Laos. A second phase will then bring the network to major provinces around the country, although it's not clear when this will be.

Which MP's products are best for 5G?

Several innovative, high-performance MPS products, including the MPF32010, MCS180x family, MP18831, MPF32020, MP023 and MPQ27800. New 5G networks bring new challenges for powering base stations. MPS has developed a powerful, efficient new power supply solution for 5G telecom applications using several innovative products.

What are the key requirements for 5G infrastructure?

From the trends and challenges mentioned above, we can derive three key general requirements for the 5G infrastructure:

- o High efficiency. Achieving high efficiency is the best way to reduce heat dissipation (due to high power consumption compared to 4G) and operational expenses (OPEX).
- o Re-use of existing infrastructure.

Base station operators deploy a large number of distributed photovoltaics to solve the problems of high energy consumption and high electricity costs of 5G base stations.

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These tools simplify the task of selecting the right power management solutions for these devices and, thereby,



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provide an optimal power solution for 5G base stations components.

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