

Outdoor Small Signal Base Station Energy Method





Overview

Do small cell base stations consume more power?

Base line small cell base station In cellular networks, to meet the increasing demand of high-data-rate for wireless applications, small cell BSs provide a promising and feasible approach but that consumes more power. The base line of small cell BSs is shown in Fig. 1.

What are the standardized energy-saving metrics for a base station?

(1) Energy-saving reward: after choosing a shallower sleep strategy for a base station, the system may save more energy if a deeper sleep mode can be chosen, and in this paper, the standardized energy-saving metrics are defined as (18) $R_{ie} = E_{SM} - 0 E_{SM} = i E_{SM} - 0 E_{SM} = 3$.

What are base station types?

Base station types. first the AC/DC or isolated PoE converter generating the intermediate bus voltage of 12 V or 5 V, and then a point-of-load converter to step down once more to the necessary voltage level. If the PoE architecture includes power-sourcing equipment (PSE), a 48-V power rail has to be stepped down to power the PSE controller.

How do you convert a base station to a power supply?

The most common method is to use multistage conversion: Table 1. Base station types. first the AC/DC or isolated PoE converter generating the intermediate bus voltage of 12 V or 5 V, and then a point-of-load converter to step down once more to the necessary voltage level.



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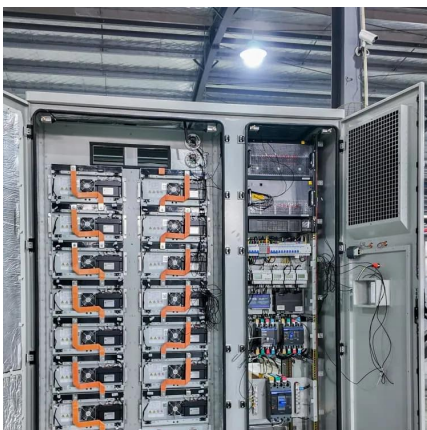
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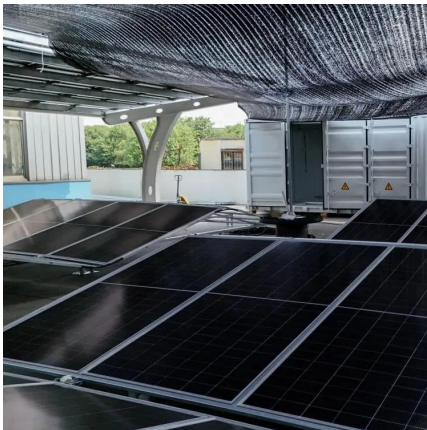
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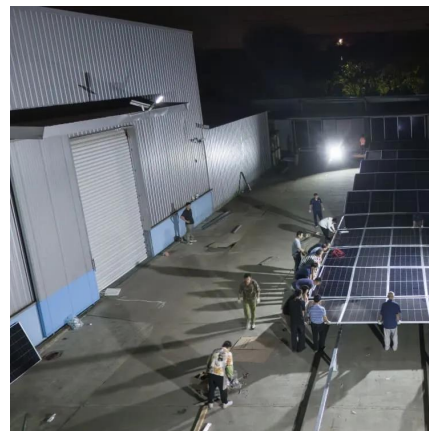


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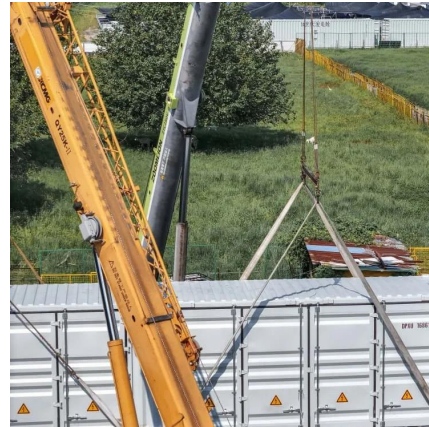
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