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(57) Abstract :

The invention relates to a device for smart power sharing in communication base stations. The device comprises a power input unit (101), monitoring sensors (102), a control processor (103), an intelligent switching module (104), a transceiver power distribution unit (105), and a communication interface module (106). It dynamically allocates power across modules, ensures load balancing, and prevents service disruption during failures. The device reduces energy consumption, enhances reliability, and supports scalable deployment in 5G and 6G networks, providing a cost-effective and sustainable telecommunication solution.

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