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(19) **United States**(12) **Patent Application Publication****FAN et al.**(10) **Pub. No.: US 2022/0354023 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **POWER SUPPLY DEVICE**(71) Applicant: **Delta Electronics (Shanghai) Co.,Ltd.**,  
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The application provides a power supply device comprising two input ports disposed at a front end of the power supply device; at least one fan disposed behind the two input ports and two isolated power supplies connected respectively to the corresponding one of the two input ports and disposed behind the two input ports and the at least one fan. Each of the isolated power supplies comprises a main power circuit having at least one module, and each module comprises a PCB and a magnetic element and/or switching devices. The at least one module includes an isolated circuit module comprises a transformer having windings formed by laying copper in the PCB and the magnetic core fixed on the PCB. And at least one fan is configured for heat dissipation of the at least one module.

