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UNINTERRUPTIBLE POWER SUPPLY  
SYSTEM, CONTROLLER, AND  
UNINTERRUPTIBLE POWER SUPPLY  
SYSTEM**

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(57) **ABSTRACT**

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Example control methods and apparatus are described. An example control method for an uninterruptible power supply system includes: when a bypass power supply branch supplies power to a load, outputting a first drive signal to a first switch device and outputting a second drive signal to a second switch device; and controlling the first drive signal and the second drive signal to have a phase difference with an input voltage of the bypass power supply branch; or when a load current of the bypass power supply branch is less than a first threshold, outputting an inverter control signal to control an inverter power supply branch to charge an energy storage battery; or when a current of the inverter power supply branch flows back to an input end of the bypass power supply branch, turning off the first switch device and the second switch device via the inverter power supply branch.

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