

## 製品概要

## NCP1200: PWM Controller, Fixed Frequency, Flyback, Current Mode

技術情報は、データシートをご参照ください。

Housed in SO-8 or DIP-8 package, the NCP1200 represents a major leap toward ultra-compact Switch-Mode Power Supplies. Thanks to a novel concept, the circuit allows the implementation of a complete offline battery charger or a standby SMPS with few external components. Furthermore, an integrated output short-circuit protection lets the designer build an extremely low-cost AC/DC wall adapter associated with a simplified feedback scheme. With an internal structure operating at a fixed 40 kHz, 60 kHz or 100 kHz, the controller drives low gate-charge switching devices like an IGBT or a MOSFET thus requiring a very small operating power. Thanks to current-mode control, the NCP1200 drastically simplifies the design of reliable and cheap offline converters with excellent audio-susceptibility and inherent pulse-by-pulse control. When the current setpoint falls below a given value, e.g. the output power demand diminishes, the IC automatically enters the so-called skip cycle mode and provides excellent efficiency at light loads. Because this occurs at low peak current, no acoustic noise takes place. Finally, the IC is self-supplied from the DC rail, eliminating the need of an auxiliary winding. This feature ensures operation in presence of low output voltage or shorts.

## 特長

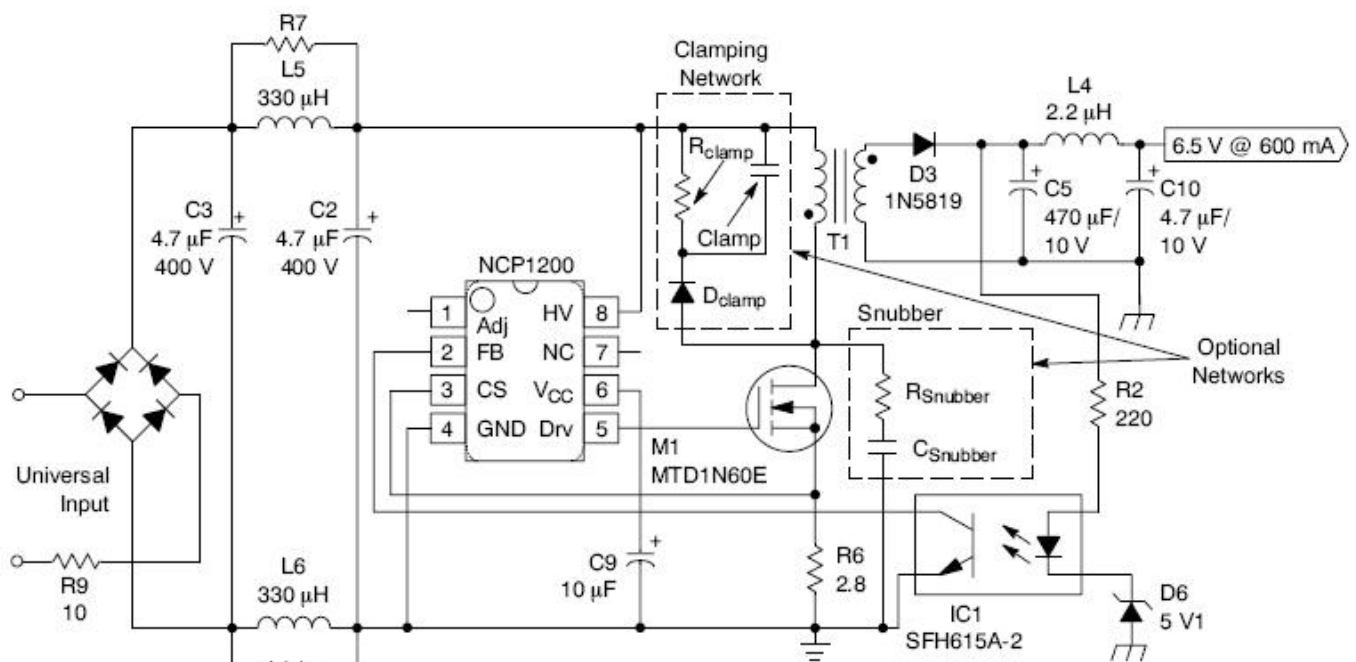
- No Auxiliary Winding Operation
- Internal Output Short-Circuit Protection
- Extremely Low No-Load Standby Power
- Current-Mode with Skip-Cycle Capability
- Internal Leading Edge Blanking
- 250 mA Peak Current Source/Sink Capability
- Internally Fixed Frequency at 40 kHz, 60 kHz and 100 kHz
- Direct Optocoupler Connection
- Built-in Frequency Jittering for Lower EMI
- SPICE Models Available for TRANSient and AC Analysis

For more features, see the data sheet

## アプリケーション

- AC/DC Adapters
- Offline Battery Chargers
- Auxiliary/Ancillary Power Supplies (USB, Appliances, TVs, etc.)

## アプリケーション・ダイアグラム



A typical AC-DC wall adapter showing the reduced part count due to the NCP1200

詳細は、弊社 [www.onsemi.jp](http://www.onsemi.jp) の営業または販売代理店にお問い合わせください。

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