

NCP1650

Power Factor Controller (PFC)



Product Overview

For complete documentation, see the data sheet.

The NCP1650 is an active, power factor correction controller that can operate over a wide range of input voltages, and output power levels. It is designed to operate on 50/60 Hz power systems. This controller offers several different protection methods to assure safe, reliable operation under any conditions. The PWM is a fixed frequency, average current mode controller with a wide complement of features. These features allow for both flexibility as well as precision in its application to a circuit. Critical components of the internal circuitry are designed for high accuracy, which allows for precise power and current limiting, therefore minimizing the amount of overdesign necessary for the power stage components. The NCP1650 is designed with a true power limiting circuit that will maintain excellent power factor even in constant power mode. It also contains features that allow for fast transient response to changing load currents and line voltages.

Features

- Fixed Frequency Operation
- Average Current Mode PWM
- Continuous or Discontinuous Mode Operation
- Fast Line/Load Transient Compensation
- True Power Limiting Circuit
- Undervoltage Lockout
- Overvoltage Limiting Comparator
- Brown Out Protection
- Operation from 25 to 250 kHz

Applications

- Power Converters

End Products

- Servers
- Industrial Equipment