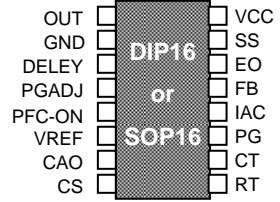


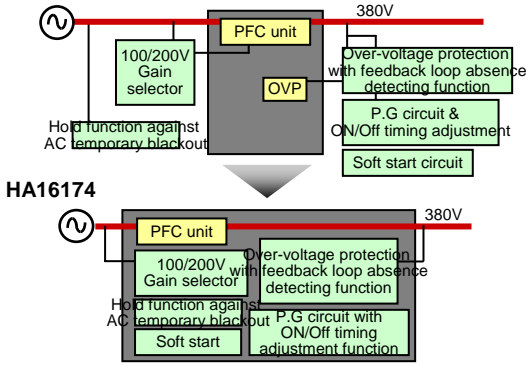
Features

High reliability by all required functions integrating

1. Continuous conduction mode suitable for the system with a large amount and frequency of a current change.
2. ON/OFF support of the main converter and the load by a PG signal and a hold function.
3. Hold function against an AC temporary blackout
4. Over-voltage protection with a feedback loop absence detecting function
5. Quick soft-start
6. Improvement of the load regulation by a Gm amplifier



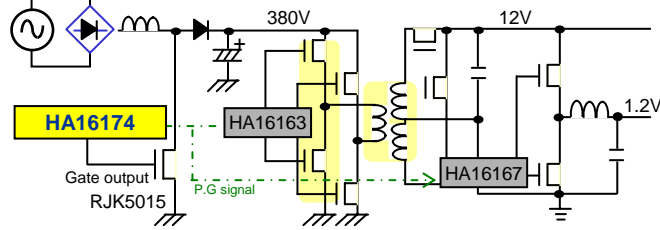
Single-function PFC control IC



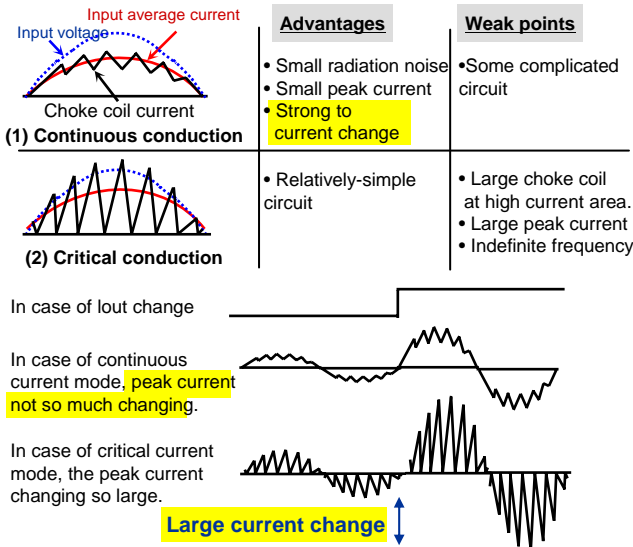
Example of Application Circuit

Small and high reliability system

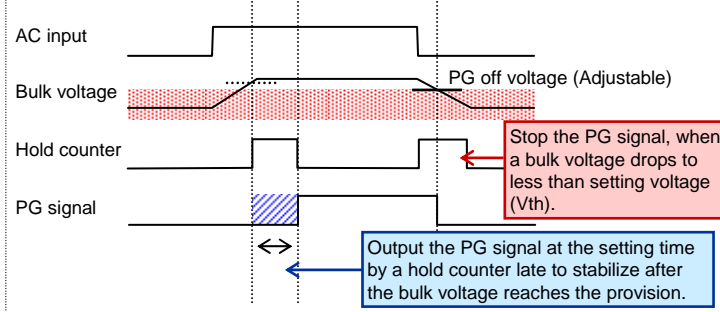
- The HA16174 stabilizes the over-current control of PFC unit and sets the S/S ineffective time by a hold function in time of an AC temporary blackout.
- The HA16163 makes up a full bridge and achieves small and high efficiency trances.



1. Continuous Conduction Mode



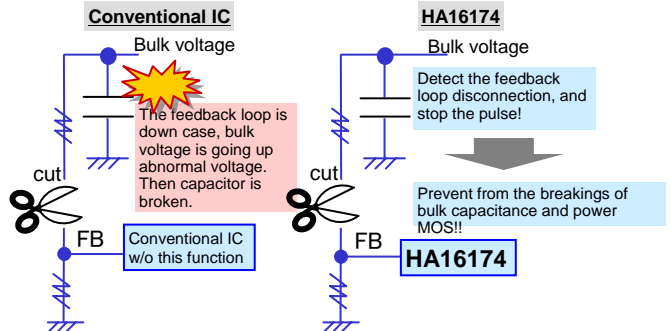
2. ON/OFF Support for Main Converter and Load



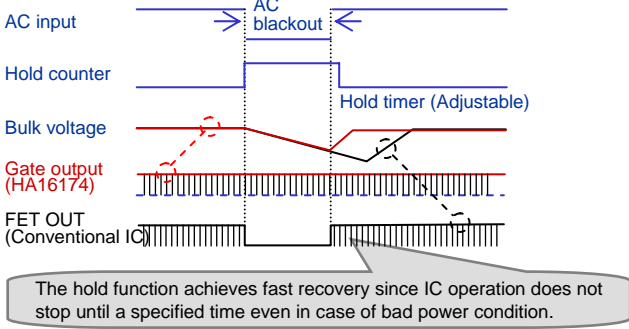
Ex.) Enable to start or stop the main converter in the normal sequence by using a PG signal.

4. Over-voltage Protection with a Feedback Loop Absence Detecting Function

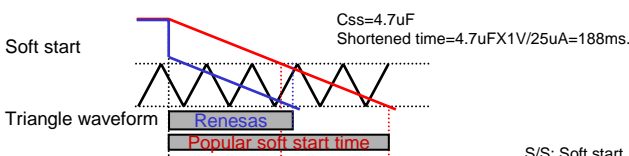
Feedback loop absence detection can stop output pulse. Therefore Renesas PFC IC prevents the breakings of bulk capacitor and MOSFET.



3. Hold function against AC Temporary Blackout



5. Quick Soft Start Shortens S/S time



6. Improvement of Load Regulation by gm Amp. in Feedback Loop

