

MAXREFDES112 Power Supply Reference Designs

Efficiently convert 24V into useful voltage rails at a variety of power levels

Product Overview

05/05/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

MAXREFDES112 Flyback Power Supply Reference Designs from Maxim Integrated are a series of isolated, industrial power supply reference designs. These reference designs were designed and built by power supply experts. Each of these power supplies efficiently converts 24V into useful voltage rails at various power levels. Every power rail is isolated with a readily available transformer from multiple, global vendors, providing for quick, convenient transformer selection.

Each design has been tested for load and line regulation, as well as efficiency and transient performance. The

MAXREFDES112 is an efficient flyback topology with 24V input and a 12V output at 10W of power (0.8A). The design features the MAX17596, a peak-current-mode converter with a flexible switching frequency. This entire circuit fits on a 20.3mm x 59.7mm board.



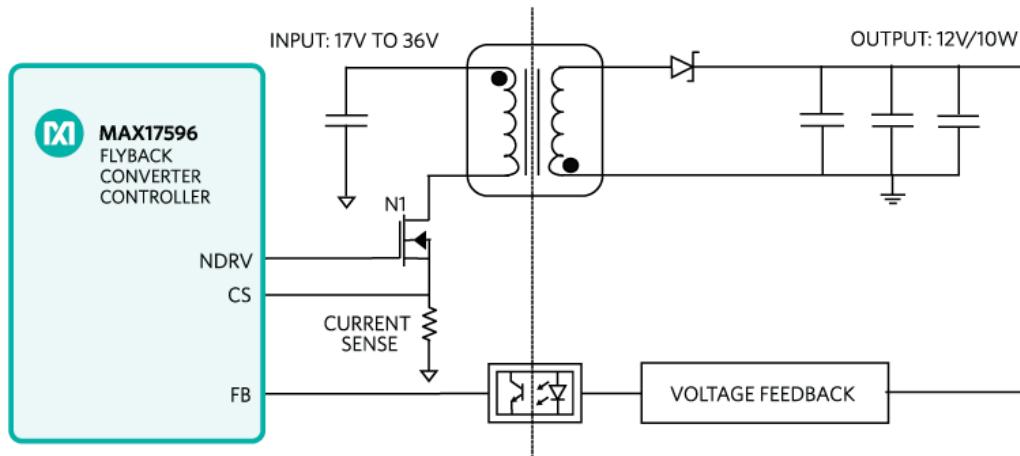
Features

- [Maxim MAX17596](#), a peak-current-mode controller
- Included Transformer
 - MAXREFDES112A - Wurth (750315882)
 - MAXREFDES112B - Sumida (12387T070)
 - MAXREFDES112C - Hanrun (HR051075)
 - MAXREFDES112D - Halo (TGSP-P145EP10LF)
- Functional insulation
- Compact and flexible
- Minimal external components
- Robust operation in adverse industrial environments
- 12V 800mA with 20% over-range current
- $\pm 5\%$ output accuracy

Applications

- Industrial control and automation
- Process control
- PLC
- Telecom and Datacom power supplies

Block Diagram



Mouser Part Numbers

[View All Parts](#)

To learn more, visit <https://www.mouser.com/new/maxim-integrated/maxim-maxrefdes112/>