

PM67596 High Efficiency, Non-Isolated, Regulated 12V, 1600W, Digital DC/DC Intermediate Bus Converter

Features

- 40 to 60V Input Voltage Range
- 12V Regulated Output Voltage
- Up to 1600W Continuous Output Power
- Up to 2400W Transient Output Power
- Up to 98.3% Efficiency
- Parallel Operation for Multi-kW Arrays
- Configuration and Monitoring via PMBus
- 58.4mm x 36.8mm x 12.7mm
- Wave and Reflow Soldering (MSL3)
- UL62368-1, 2nd Pending.

Application

- Artificial Intelligence System
- Data Center
- Computing systems

Description

The PM67596 is a high-efficiency, non-isolated power module.

The module operates from a 40V to 60V DC primary input voltage bus and outputs a 12V regulated DC voltage. It can deliver up to 1600W continuously and 2400W in transient.

The built-in digital controller can store and restore module configurations. The fault status, input voltage, output voltage, output current, and temperature are monitored via the PMBus interface.

The PM67596 is available in a quarter-brick (58.4mm x 36.8mm x 12.7mm) package.

Typical Application Circuit

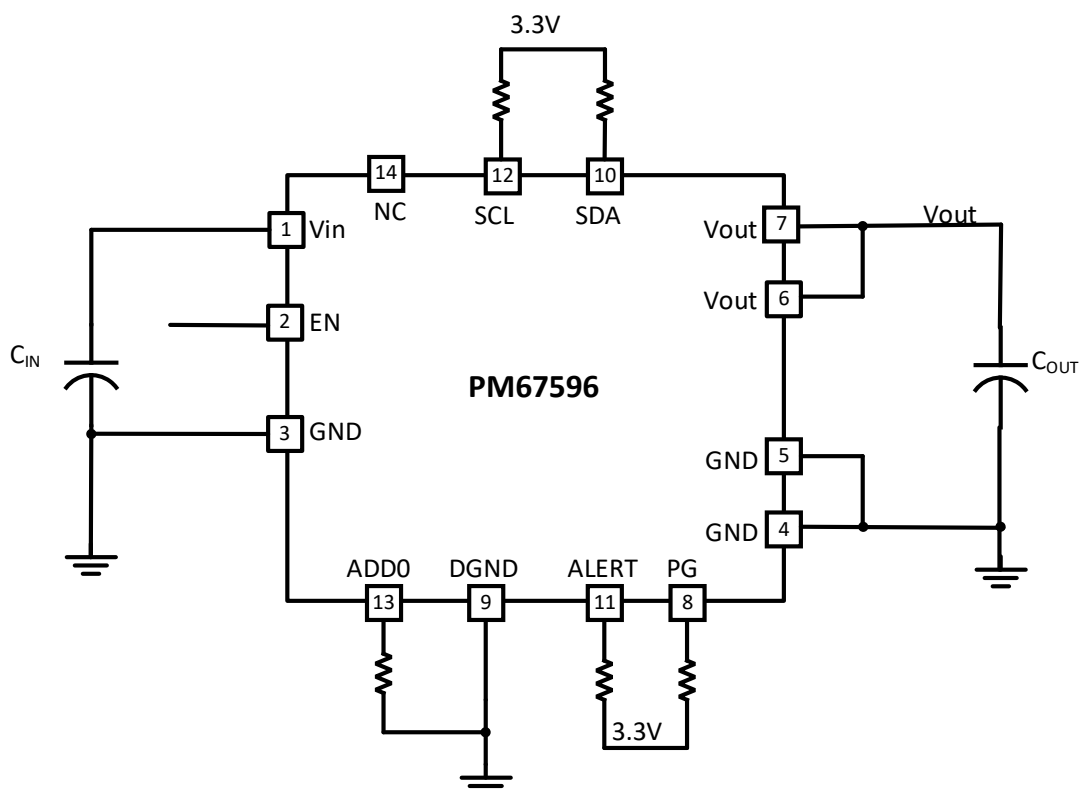


Figure 1. Typical Application Circuit