

PM67597 High Efficiency, Non-Isolated, Fixed 4:1 Ratio, 1000W Digital DC/DC Power Module

Features

- 40 to 60V Input Voltage Range
- 10 to 15V Output Voltage Range
- Up to 1000W Continuous Output Power
- Up to 2000W Transient Output Power
- Up to 98.0% Efficiency
- Parallel Operation for Multi-kW Arrays
- Configuration and Monitoring via PMBus
- Auto-Recovery Mode for UVP, OTP, OCP
- 23mm x 17.4mm x 7.6mm Open Frame
- 23mm x 17.4mm x 10mm with HSP
- Reflow Soldering (MSL rating of 3)

Application

- Artificial Intelligence System
- Data Center
- Computing systems

Description

The PM67597 is a high-efficiency, non-isolated power module with a fixed 4:1 transformer turns ratio. The module operates from a 40V to 60V DC primary bus and a 10V to 15V output voltage. It can deliver up to 1000W continuous and 2000W in transient.

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

The PM67597 is available in an LGA(23mm x 17.4mm x 7.6mm open frame, 23mm x 17.4mm x 10mm with HSP) package.

Typical Application Circuit

