

# RSM3512 High Efficiency, Non-Isolated, Regulated 12V, 2000W, Digital DC/DC Intermediate Bus Converter

#### **Features**

- 40 to 60V Input Voltage Range
- 12V Regulated Output Voltage
- Up to 200W Continuous Output Power
- Up to 3000W Transient Output Power
- Up to 98% Efficiency
- Parallel Operation for Multi-kW Arrays with active current sharing
- Configuration and Monitoring via PMBus
- 58.4mm x 36.8mm x 13.9mm with HSP
- Wave and Reflow Soldering (MSL3)
- UL62368-1, 2nd Pending

#### **Application**

- Artificial Intelligence System
- Data Center
- · Computing systems

### **General Description**

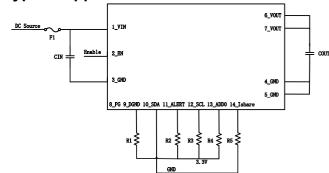
The RSM3512 is a high-efficiency, non-isolated power module.

The module operates from a 40V to 60V DC primary bus and a 12V regulated output voltage. It can deliver up to 2000W continuously and 3000W 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 RSM3512 is available in quarter-brick (58.4mm x 36.8mm x 13.9mm with HSP) package.

#### **Typical Application Circuit**



**Figure 1. Typical Application Circuit** 

#### **Efficiency**

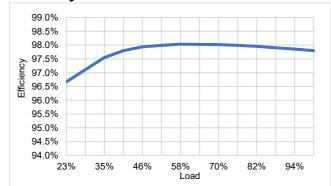


Figure 2. Typical Efficiency Curve (V<sub>IN</sub> = 54V)

## **Ordering Information**

Part Number	Input	Output	HSP
RSM3512	40-60V	12.0V	Yes