All measurements taken with a 48V input, 2A load unless otherwise noted.

**Efficiency**

![Efficiency Graph](image)

**Ripple and Noise**

Ripple measurements taken with a 2A load and 20MHz BWL.

Output Ripple (J4)
20mV/div, 2usec/div
Measured 26.7mV pk-pk:

Input Ripple (C11)
20mV/div, 2usec/div
Measured 51.3mV pk-pk:
**Dynamic Loading**

Load Step
1A to 2A step load, 250mA/usec slew rate
200mV/div, 500usec/div
Measured 783mVpp:

![Graph](image1.png)

**Turn On Response**

2A Load, 2msec/div
2V/div, 2msec/div:

![Graph](image2.png)

0A Load, 2msec/div
2V/div, 2msec/div:

![Graph](image3.png)

**Waveforms**

Switch node, 57V Input, 2A Load
20V/div, 2usec/div

![Graph](image4.png)
Stability

Loop response of the converter with a 48V input and 2A load.

BW=14Khz    PM=65 degrees    GM=15dB

Thermal:

Thermal measurement taken with 48V input and 2A load, no air flow.

<table>
<thead>
<tr>
<th>Spot analysis</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp01. Temperature</td>
<td>46.6°C</td>
</tr>
<tr>
<td>Temp02. Temperature</td>
<td>46.6°C</td>
</tr>
</tbody>
</table>
Photo:
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