1  Sifos Technologies

Sifos Technologies provides a one-box solution to facilitate complete testing and analysis of Power Sourcing Equipment (PSE) behaviors and overall compliance to the IEEE 802.3at specification. The PSE Conformance Test Suite serves as a virtual industry standard for PSE specification compliance. SIFOS test coverage exceeds 95% of 802.3at PSE PICS

2  Enhanced Test Conditions

In addition to just running the basic conformance testing on an individual port and to better recreate the system-level environment, TI individually tests all ports of its PSE controller devices while having the background ports running at various PoE-application conditions. TI further, repeats testing conditions over extended periods of time to ensure performance is consistent after multiple hours, days and/or continued operation.
### PSA TEST RESULTS

<table>
<thead>
<tr>
<th>Test</th>
<th>Min</th>
<th>Max</th>
<th>Average</th>
<th>Low Limit</th>
<th>P/F</th>
<th>High Limit</th>
<th>P/F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test: psa_1</td>
<td>51.8</td>
<td>51.8</td>
<td>51.8</td>
<td>51.8</td>
<td>50 Pass</td>
<td>57 Pass</td>
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<tr>
<td>Test: psa_2</td>
<td>425.38</td>
<td>425.38</td>
<td>425.38</td>
<td>425.38</td>
<td>400 Pass</td>
<td>450 Pass</td>
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<td>101</td>
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<td>57 Pass</td>
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<tr>
<td>Test: psa_4</td>
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<td>42</td>
<td>42</td>
<td>40 Pass</td>
<td>46.83 Pass</td>
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</tr>
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<td>8.6</td>
<td>8.6</td>
<td>8.6</td>
<td>8 Pass</td>
<td>12 Pass</td>
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<tr>
<td>Test: psa_6</td>
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<td>10.0</td>
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<td>16 Pass</td>
<td></td>
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<tr>
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<td>17</td>
<td>17</td>
<td>17</td>
<td>16 Pass</td>
<td>19 Pass</td>
<td></td>
</tr>
<tr>
<td>Test: psa_8</td>
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<td>75</td>
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<td>75</td>
<td>51 Pass</td>
<td>100 Pass</td>
<td></td>
</tr>
<tr>
<td>Test: psa_9</td>
<td>6.8</td>
<td>6.8</td>
<td>6.8</td>
<td>6.8</td>
<td>6 Pass</td>
<td>12 Pass</td>
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<tr>
<td>Test: psa_10</td>
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<td>10.5</td>
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<td>9 Pass</td>
<td>17 Pass</td>
<td></td>
</tr>
<tr>
<td>Test: psa_11</td>
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<td>9</td>
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<td>6 Pass</td>
<td>10 Pass</td>
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</tr>
<tr>
<td>Test: psa_12</td>
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<td>32.4</td>
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<td>38.9 Pass</td>
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<tr>
<td>Test: psa_13</td>
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<td>35</td>
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<td>32 Pass</td>
<td>42 Pass</td>
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<tr>
<td>Test: psa_14</td>
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<td>0 Pass</td>
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<tr>
<td>Test: psa_15</td>
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<td>-1 Pass</td>
<td>683 Pass</td>
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<tr>
<td>Test: psa_16</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>-1 Pass</td>
<td>2000 Pass</td>
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</tr>
</tbody>
</table>

### Enhanced Test Conditions

- **Loop Count**: 1
- **Port Count**: 10
- **PSA-3000 Ports**: None
- **Test Mode**: 30 Watt PHY
- **100%Sifos Interop Index**: 100%
- **PSA-3000 Ports**: None

### Error Log:

- **Type-2**: results
- **Enhanced Test Conditions**: None
- **Info**: None

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**Figure 1. Sifos Technologies 802.3at Conformance Report**
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