



Guidance on the UPS Version 1.0 Test Method

Last Update: October 18, 2012

Dear ENERGY STAR Uninterruptible Power Supply (UPS) Partner or Other Stakeholder:

On May 10, the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE) published the UPS Version 1.0 Final Test Method following an extensive development process that involved industry stakeholders. Since then, stakeholders have submitted additional questions on the test method and DOE has decided to provide further guidance on the UPS Version 1.0 Test Method:

| Topic | Additional guidance |
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| General | All settings that are not explicitly covered in the UPS Version 1.0 Test Method should be left in their as-shipped (e.g. default) configuration. |
| Section 3.B – 3-phase and single-phase power | UPSs that support both 3-phase and single-phase input power shall be tested using 3-phase power. |
| Section 5.B – steady-state check at 0% load | The steady-state check only applies to the stability of the conversion efficiency under active loads. Thus, the steady-state check is not necessary for the 0% load condition. However, the UPS shall still be thermally stabilized after 125% of the manufacturer-specified stabilization time for 0% load, as described in section 5.B, before the power measurement performed in 5.C. |
| Section 5.C.2 – measurement period | To allow testing flexibility, energy measurements may be taken for greater than 15 minutes. In this case, the calculation of P_{AVG} using Equation 1 shall use the actual measurement period for t . DOE data indicate that measurement durations greater than 15 minutes will not affect the resulting average efficiency. |

Thank you for your support, and please direct any test method questions to Bryan.Berringer@ee.doe.gov.

Sincerely,

Bryan Berringer

DOE Test Method Lead for ENERGY STAR UPS Program