

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
AIR AND RADIATION

May 10, 2012

Dear ENERGY STAR[®] Uninterruptible Power Supply Stakeholder:

The US Environmental Protection Agency (EPA) and US Department of Energy (DOE) are pleased to inform you that the Version 1.0 ENERGY STAR Specification for UPSs has been finalized and will take effect on **August 1, 2012**. Stakeholder feedback throughout the development process has been greatly appreciated and crucial to the development of the Final V1.0 requirements. Stakeholder comments, all drafts, masked product data, and related materials are available on the ENERGY STAR website at http://www.energystar.gov/index.cfm?c=new_specs.uninterruptible_power_supplies.

Enclosed with this cover memorandum is the Final Version 1.0 ENERGY STAR Program Requirements for Uninterruptible Power Supplies (UPSs), including Partner Commitments, Eligibility Criteria, Test Method, Final Draft Comment Summary, and Test Reporting Template. Below is a list of changes reflected in the Partner Commitments, Final Specification and Test Method, based on stakeholder feedback:

- Partner Commitments: Section 5.1.2 has been updated with language that reflects the new dynamic format of the Power and Performance Data Sheet (PPDS). Since PPDS information will now be accessible through an online comparison tool or “widget”, there is no need for manufacturers to provide a direct link to the PPDS from each qualified model’s product web page.
- Specification:
 - Rotary UPS Definition: Rotary UPS definitions have been updated to more accurately and clearly highlight the differences between Rotary UPS without Diesel and Diesel-coupled rotary UPS.
 - Scope: UPSs designed for mobile, ship-board, marine, or airborne applications have been added to the list of excluded products. EPA understands that these products are subject to additional requirements or have unique features that complicate testing or setting efficiency levels. The intention behind this change is similar to that for other excluded product types such as those UPSs designed for safety-related applications.
 - Other Revisions: Several additional minor modifications have been made based on stakeholder comments.
 - All power levels are now expressed in watts (W) rather than kilowatts (kW)
 - Section 3.2.2 (Multiple-normal-mode UPSs) has been expanded into Sections 3.2.2 and 3.2.3 to clarify requirements for UPSs that ship their highest input dependency mode enabled by default.
 - Clarifications have been added that note that all power values refer to the rated output power of the UPS.
 - The power factor requirement has been clarified to apply to Ac-output UPSs only
 - Section 3.5 (Standard Information Reporting Requirements) has been updated with language that reflects the new online Power and Performance Data Sheet (PPDS).
- Test Method: Several minor modifications have been made based on stakeholder comments

- 415Y/240 V ac at 50Hz has been removed from Table 1 to ensure consistency with EU requirements. UPSs that would normally be tested under these conditions can be tested using 400Y/240 V ac at 50Hz or utilize Section 3.B.1.
- Equation 3: Calculation of Efficiency Variation for Determination of Steady State has been added to Section 5.B. This modification is only for clarity and does not change testing intent or results.
- Various language modifications and clarifications have been made throughout the document based on stakeholder comments.
- Various changes to the language and ordering of sections in the Test Data Template have been made based on stakeholder comments.

Timeline and Next Steps

EPA has established the following timeline for the implementation of the new ENERGY STAR UPS specification:

- Effective immediately, manufacturers new to the ENERGY STAR program may submit a Partnership Agreement and existing manufacturer partners may submit a new Commitment Form to join@energystar.gov to initiate the application process for the UPS program. For information about this process, please visit www.energystar.gov/join.
- Third-party laboratories interested in obtaining EPA recognition for the ENERGY STAR UPS program are encouraged to begin the accreditation process with their accreditation body, if they have not already done so. First-party, un-accredited labs can conduct testing if they participate in a witnessed or supervised testing program run by a certification body (CB). For more information, please visit www.energystar.gov/testingandverification.
- A training session for CBs and labs that wish to test and certify products to this UPS specification will be held in late May. Further information on date and time will be distributed shortly. CBs must participate in training to be recognized by ENERGY STAR.
- Immediately after the training, CBs may apply for recognition for the UPS category. Approximately one month after the training, EPA will inform qualified CBs of their recognition and post them to the ENERGY STAR website. Manufacturers may then secure their services and begin certifying products.
- UPS products may be marked and marketed with the ENERGY STAR label starting August 1st. The list of ENERGY STAR UPSs will be made public at this time.

Power and Performance Data Sheet

EPA would like to thank those stakeholders who participated in the webinar to discuss the draft of the ENERGY STAR Version 1.0 UPS Power and Performance Data Sheet (PPDS) electronic product comparison tool (interactive “widget”) released on April 18, 2012. The PPDS is a standardized consumer-facing template for displaying ENERGY STAR qualified data center product characteristics and efficiency data. EPA is currently reviewing stakeholder feedback and continuing to develop the PPDS for release in summer 2012. Stakeholders will continue to receive notifications on the progress of the PPDS as well as related items for review in the coming months. To see prior draft documents of the PPDS, please visit the ENERGY STAR UPS Web page by going to www.energystar.gov/NewSpecs and clicking on “Uninterruptible Power Supplies”.

QPX

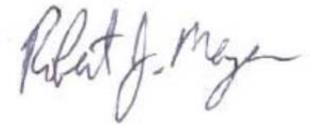
Additionally, CBs are encouraged to comment on the draft data requirements for the new QPX system located at: http://www.energystar.gov/index.cfm?c=third_party_certification.tpc_xml_forms. Please send any comments on these data requirements to certification@energystar.gov.

All enclosed documents are considered final. To view previous draft versions of the specification and test method, EPA correspondence, and stakeholder comments, please visit www.energystar.gov/NewSpecs and follow the link to “Uninterruptible Power Supplies.”

EPA and DOE again thank all stakeholders who provided feedback during the specification and test method development process and look forward to continuing to work with you to promote energy efficient

UPS products. Please direct any specific questions on the Final Specification to RJ Meyers, EPA, at Meyers.Robert@epa.gov, or 202-343-9923, or Matt Malinowski, ICF International, at mmalinowski@icfi.com or 202-862-2693. Please direct specific questions on the Final Test Method to Bryan Berringer at Bryan.Berringer@ee.doe.gov, or 202-586-0371.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Meyers". The signature is written in a cursive style with a large initial "R" and "M".

Robert Meyers
ENERGY STAR Data Center Products Manager