

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



OFFICE OF  
AIR AND RADIATION

October 17, 2005

Dear Battery Charging System Manufacturer, ENERGY STAR® Partner, or Other Interested Party:

EPA welcomes your input on the **Draft 2** ENERGY STAR specification for battery charging systems and the “Test Method for Determining the Energy Performance of Battery Charging Systems (Draft, October 2005).” The ENERGY STAR battery charging systems specification is intended to complement the existing ENERGY STAR external power supply specification to comprehensively cover a variety of power conversion products. **Please note that manufacturers may only qualify a model under one specification (i.e., external power supply OR battery charging system) that best fits or reflects the power supply and product design.**

All interested parties are encouraged to review the attached documents and **provide comments by November 11, 2005.**

Draft 2 of this specification includes the following significant changes to Draft 1:

- Several definitions and the qualifying products description were altered to better differentiate the battery charging systems specification from the external power supply specification.
- Instead of using *nominal* battery energy, battery energy will now be determined through applicable IEC test methods with a few modifications, as outlined in Section 5.3 of the ENERGY STAR Test Methodology.
- New definitions and methods of calculating the Nonactive Energy Ratio (ER) for multi-voltage a la carte chargers and multi-port chargers have been added.
- To qualify as ENERGY STAR, maximum ERs are now specified in Section 3 for each typical battery voltage (in 1.2 volt increments); systems with battery voltages that fall between these typical voltages will use the maximum ER associated with the next highest voltage.
- Products with secondary functionality (besides a simple clock) that also draw power have been excluded from this specification.
- The minimum power draw for qualifying systems was raised to 2 watts so as to exclude products with very low power consumption and thus limited savings potential.

EPA plans to distribute the ENERGY STAR Partner Commitments, including the ENERGY STAR battery charging systems graphic, with the next draft version of the specification, as the graphic is still under development. The Partner Commitments provide the basic partnership requirements—submittal of qualified product data, product labeling, and submittal of unit shipment data—which are consistent across the more than 40 product areas covered by ENERGY STAR.

Thank you in advance for taking the time to review Draft 2 of the ENERGY STAR specification for battery charging systems. Please send any comments to Arthur Howard, ICF Consulting, at [ahoward@icfconsulting.com](mailto:ahoward@icfconsulting.com) by November 11, 2005.

If you have any questions or concerns, please feel free to contact me directly at (202) 343-9019 or [fanara.andrew@epa.gov](mailto:fanara.andrew@epa.gov). Thank you again for your continued support of ENERGY STAR.

Sincerely,

A handwritten signature in black ink, appearing to read 'A. Fanara', with a long horizontal line extending to the right.

Andrew Fanara, Manager  
ENERGY STAR Product Specification Development

Enclosures:

- Draft 2 ENERGY STAR Eligibility Criteria for Battery Charging Systems
- Test Method for Determining the Energy Performance of Battery Charging Systems (Draft, October 2005)