



80 Plus Testing

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SNIA Emerald™ Training

*SNIA Emerald™ Power Efficiency
Measurement Specification*

Version 3.0

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Agenda

- Energy Star Requirements
- 80 PLUS Certification Requirements 80 Plus/EPRI testing Fees
- 80 PLUS Certification Process
- 80 Plus Contact Information



Energy Star Requirements

- Energy Star For Storage requires that power supplies must meet the 80 Plus Silver efficiency requirements.
- Power Supplies must be tested to the “Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.7 located at:
https://plugloadsolutions.com/docs/collatrl/print/Generalized_Internal_Power_Supply_Efficiency_Test_Protocol_R6.7.pdf

80 PLUS Certification Requirements

80 PLUS Certification	115V Internal				230V Internal			
	10%	20%	50%	100%	10%	20%	50%	100%
80 PLUS	---	80%	80%	80% / PFC .90	---	---	---	---
80 PLUS Bronze	---	82%	85% / PFC .90	82%	---	81%	85% / PFC .90	81%
80 PLUS Silver	---	85%	88% / PFC .90	85%	---	85%	89% / PFC .90	85%
80 PLUS Gold	---	87%	90% / PFC .90	87%	---	88%	92% / PFC .90	88%
80 PLUS Platinum	---	90%	92% / PFC .95	90%	---	90%	94% / PFC .95	91%
80 PLUS Titanium	---	---	---	---	90%	94% / PFC .95	96%	91%

80 PLUS License and Certification Fees

- One time License fee of \$1,000 USD
 - ◆ JPEG logo posting to website
 - ◆ URL to redirect customers to your website
- 230V Per model fee \$2,500 USD
 - ◆ Units must be configured with external fan leads for testing in order to remove fan power from calculation
 - ◆ 2 samples requested
- 115V Per model fee \$2,000 USD
 - ◆ No fan power leads needed
 - ◆ 2 samples requested

80 PLUS Certification Process

TEST & CERTIFICATION PROCESS

- Submitting manufacturer completes an online application
http://www.plugloadsolutions.com/80PlusPowerSupplies_Application.aspX
- Manufacturer receives a confirmation email and shipping address with details for submitting their samples to EPRI, the program's certified independent testing partner
- Test reports are available approximately three weeks after the manufacturer's product samples (or) application questionnaire have been received by the 80 PLUS program

TEST & CERTIFICATION PROCESS (continued)

- Test reports and an invoice are sent to the submitting manufacturer according to the contact(s) provided on the application questionnaire
- Once the submitting manufacturer completes payment for their invoice and approves the report content, Ecova verifies receipt of invoice and updates the test report to the website

<http://www.plugloadsolutions.com/80PlusPowerSupplies.aspx>

80 Plus Contact Information

To learn more, contact program staff or visit:
plugloadsolutions.com



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