



ENVIRONMENTAL DATA SHEET
PRODUCT: OEM Ready PowerEdge™ 1850
Effective Date: 6/1/2006

Dell Inc.
www.dell.com

SYSTEM DIMENSION AND WEIGHT

Depth, cm	Width, cm	Height, cm	Weight, kg
76.2	48.26	4.29	17.69 depending on options installed

DECLARATIONS AND CERTIFICATIONS

Through internal design controls and supply chain declarations, this system¹ has been verified to comply with the EU RoHS Directive².

PERFORMANCE DATA

System Configuration

The Energy Consumption and Declared Noise Emissions data is based on a configuration including dual Intel® 3.2 GHz Xeon processors, 2 GB of memory, 2 36GB hard drives, CD drive, floppy drive, and a PERC4 card.

Energy Consumption³

Service Level	Energy Consumption (Wattage)	Description of Service Level	Energy Save Requirements Meets EU Eco label (2001/686/EC and 2001/687/EC) Yes / No / N/A
*Maximum	405.77	The system is running programs to maximize the power consumption.	N/A
Typical	N/A	The system is performing routine tasks.	N/A
Low-power or "Sleep" mode	N/A	The system is in a low-power saving mode	N/A
Off	41.54	The system is turned off but is still connected to its AC power source.	N/A
External Power Supply	N/A	AC adapter is connected to mains with system detached otherwise known as "No-load" condition	N/A

Energy consumption is tested at 230 Volts / 50 Hz. Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Off data is not meant to show compliance to US Executive Order 13221. When applicable, Dell product information related to US Executive Order 13221 may be obtained at: <http://oahu.lbl.gov/index.html>.

*Maximum **Energy Consumption** results are based solely upon the laboratory testing of the **System Configuration** listed above.

¹ Options from Dell Custom Factory Integration (CFI), Software and Peripherals (S&P) and Customer Kits may not be RoHS compliant.

² EU Directive on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (2002/95/EC) dated January 27, 2003.

³ This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied. The information in this document may change without notice; please note the revision number on the last page.



Declared Noise Emissions in accordance with ISO 9296

Service Level	Sound Power ($L_{WA,d}$, bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Operator Position (L_{pAm} , decibels) (re 2×10^{-5} Pa)
Floppy Drive Accessing	6.8	N/A
Hard Drive Accessing	6.8	N/A
CD Drive Accessing	6.8	N/A
Idle	6.8	N/A

PRODUCT MATERIALS INFORMATION⁴

Restricted Substances

This Dell product does **NOT** contain any of the following substances (in concentrations exceeding legal threshold limits):

- Asbestos
- Azo dyes/colorants in components that come into direct contact with human skin
- Cadmium and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Class I and Class II CFCs (chlorofluorocarbons) and HCFCs (hydrofluorocarbons)
- Chloroparaffins, short chained (10-13 carbon chain)
- Chromium VI and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Halogenated dioxins or furans (i.e. polychlorinated dibenzodioxines, polychlorinated dibenzofurans)
- Lead and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Mercury (except for use in applications exempted by the EU RoHS Directive)
- Nickel and its compounds in components that are likely to result in prolonged skin exposure
- PCBs (polychlorobiphenyls) or PCTs (polychloroterphenyls)
- PBBs (polybromobiphenyls) or PBDEs (polybrominated diphenylethers)
- PVC (polyvinyl chloride) in plastic parts greater than 25 grams
- Polychlorinated naphthalenes (PCNs)
- Tributyl tin (TBT) and triphenyl tin (TPT) compounds

For information on Japan RoHS (J-MOSS) chemical disclosures: www.dell.com/japan_rohs.

Additional Materials Information

- The cables may use PVC as an insulating material to ensure product safety
- The case material is sheet metal
- Product may contain post-industrial recycled content (plastics, metal, glass)

Flame Retardants Used in Mechanical Plastic Parts > 25 grams, Keycaps, and Motherboards

Part	Flame Retardant	ISO 1043-4
Motherboard	TBBPA	FR(16)
Mechanical Plastic Parts > 25 grams PC+ABS	Triaryl Phosphate	FR (40)
Mechanical Plastic Parts > 25 grams PC	Bromine and Chlorine Free Compound	N/A

Packaging

No CFCs (chlorofluorocarbons), HCFCs (hydrofluorocarbons) or other ozone depleting substances are used in packaging material.

Chromium, lead, mercury, or cadmium are not intentionally added to packaging materials and are not present in a cumulative concentration greater than 100 ppm as incidental impurities. No halogenated plastics or polymers are used for packaging material. Dell complies with the EU Directive 94/62/EEC.

⁴ **Waste Handling.** Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.



Packaging Materials	Weight, kg
PE	0.51
Corrugated Cardboard	2.56

Printed user documentation is bleached in a chlorine-free process. (Europe Only)

Batteries

Batteries in this product are not based on mercury, lead or cadmium technologies. The batteries used in this product are in compliance with EU Directive 91/ 157/ EEC, EU Directive 93/ 86/ EEC and EU Directive 98/ 101/ EEC.

The product documentation includes instructional information on the proper removal and disposal of the batteries used in this product. Below is a listing of batteries present in the product:

Battery Description – Internal Batteries	Battery Type
3-V CR2032 coin cell	Lithium
4.1-V ROMB battery, optional	Lithium

** Other batteries may be delivered in this system, depending on customer options. The optional internal batteries are either Lithium or Nickel Metal Hydride.

DESIGN FOR ENVIRONMENT

Longevity and Upgrading

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. To extend the life of your system, you can install or upgrade certain system components (e.g., microprocessor, memory, expansion cards, and storage devices). Spare parts are available after the end of production for up to five years, or otherwise through the warranty period.

Recyclability

For recyclability, this system incorporates the following design guidelines:

- EU WEEE mark is applied to products sold in Europe, EU recycling information can be found at www.euro.dell.com/recycling
- Minimal use of non-separable connections, such as gluing and welding between different materials.
- Minimal use of composite structure materials.
- Mechanical plastic parts greater than 100 grams consist of one material or of easily separable materials.

RECYCLING/ END-OF-LIFE SERVICE INFORMATION

Take back and recycling services are offered for this product in certain countries. If you want to dispose of system components, contact Dell for instructions by emailing recycling_emea@dell.com or visit www.dell.com/recyclingworldwide and select the relevant country.

DELL CORPORATE ENVIRONMENTAL INFORMATION

Information on Dell's Environmental initiatives, policies, programs and goals can be found at www.dell.com/environment.