



PRODUCT: Vostro™ A180, Vostro™ A180n
 REGULATORY MODEL: DCMTLF
 REFERENCE NUMBER* : 08215
 EFFECTIVE DATE: November 14, 2008

Dell Inc.
 www.dell.com

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I. PRODUCT SAFETY¹

The product has been certified and bears the Mark, as applicable, of the Product Safety authorities as indicated below.

Country/Region	Authority or Mark
Argentina	IRAM
China	CNCA or CCC
European Union	CE
IECEE	IECEE CB
Mexico	NYCE or NOM
Norway	NEMKO
Russia	GOST
Saudi Arabia	KSA ICCP
Ukraine	UKRTEST or UKRSERTCOMPUTER

II. ELECTROMAGNETIC COMPATIBILITY²

The product has been certified and bears the Mark, as applicable, of the EMC authorities as indicated below.

Country/Region	Authority or Mark	Class
China	CNCA or CCC	Class B
European Union	CE	Class B
Norway	NEMKO	Class B
Russia	GOST	Class B
Ukraine	UKRTEST or UKRSERTCOMPUTER	Class B
Vietnam	ICT	Class B

* NOTE: This equipment's unique regulatory compliance identification is provided by the Regulatory Model and Reference Number. These regulatory compliance identification markings are on the regulatory label affixed to your equipment and should not be confused with Marketing Name or Model of the equipment. To facilitate positive identification, requests for regulatory compliance information should include the Regulatory Model and Reference Number.

¹ The above-listed Product Safety certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.

² The above-listed EMC certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.



III. ERGONOMICS, ACOUSTICS AND HYGIENICS³

The product has been certified and bears the Mark, as applicable, of the Ergonomics, Acoustics and Hygienics authorities as indicated below.

Country/Region	Authority or Mark
Russia	GOST

IV. POWER CORDS AND USER DOCUMENTATION

Dell products are provided with the power cord and user documentation suitable for the intended country of delivery. Products that are relocated to other countries should use nationally certified power cords and plugs to ensure safe operation of the product. Contact Dell to determine if alternate power cords or user documentation in other languages is available for your market.

V. DATASHEET RESPONSIBLE PARTY NAME AND ADDRESS

Dell Inc.
Department: Global Regulations and Standards
MS: PS4-30
Round Rock, Texas 78682, USA
512-338-4400
Regulatory_Compliance@Dell.com

VI. TRADE (IMPORT/EXPORT) COMPLIANCE DATA

System US Harmonized Tariff System (USHTS) Number	8471.50.0150
System US Export Control Classification Number (ECCN)	4A994

For additional questions regarding importing & exporting classification of Dell products, please send an e-mail to: US_Export_Classification@Dell.com

VII. SYSTEM DIMENSION AND WEIGHT

Depth, cm	Width, cm	Height, cm	Weight, kg
45.0	18.0	35.9	12.7 (May vary with additional options installed)

³ The above-listed Ergonomics, Acoustics and Hygienics certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.



VIII. DECLARATIONS AND CERTIFICATIONS

This system received the following approvals and may be labeled with one or more of these marks depending on point of purchase:

Approvals	Certificate #	Yes / No / N/A
China: China Energy Certification Program (CECP)	CQC08701026112	Yes

Through internal design controls and supply chain declarations, this system has been verified to comply with the EU RoHS Directive. For more details, please see www.dell.com/rohsinfo.

All Dell products shipping directly into China which are manufactured on or after March 1st, 2007, will be China RoHS compliant. For more details, please see www.dell.com/rohs.

IX. PERFORMANCE DATA

System Configuration

The Energy Consumption and Declared Noise Emissions data is based on a configuration including:

Processor	Core2Duo E2180@2GHz
Hard Drive(s)	160GB
CD-ROM	DVD+/-RW and DVD
FDD	No
Video Card	INTEL G33/31
TV Card	No
Sound Card	No
Network Card	No
Modem Card	No
Other Cards	No
Power Supply	Huntkey HK280-22GP S2 180W PFC/LED



Energy Consumption⁴

Service Level	Energy Consumption (Wattage)	Description of Service Level
*Maximum	70.36	The data provided is the highest wattage reading while running an Industry Benchmark suite of tests.
Idle	50.27	As specified by the EPA Computer spec 4.0 or system is sitting at the main Windows screen.
ACPI-S3 "Standby" Mode	1.88	Suspend-to-RAM (low power mode)
ACPI-S4 "Hibernate" Mode	1.54	Suspend-to-Disk (a lower power mode)
Off Low Power Mode disabled-S5	1.83	System is turned off with the Low power Mode feature disabled via the BIOS.
Off Low Power Mode enabled-S5	1.82	System is turned off with the Low power Mode feature enabled via the BIOS.
Power Supply	n/a	Portables only! AC adapter is tested with no load attached

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

iAMT increases the power consumption even during the off state. The power measurements reported above are valid only if the iAMT Management Engine (ME) is set to "ON" in S0 state only (S0 is simply power-on, non-sleep, working state).

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>.

Declared Noise Emissions in accordance with ISO 9296 (tested in accordance with ISO 7779)

Service Level	Sound Power (L_{WAd} , bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Operator Position (L_{pAmv} , decibels) (re 2×10^{-5} Pa)	Sound Pressure Bystander Position (L_{pAmv} , decibels) (re 2×10^{-5} Pa)
Hard Drive Accessing	4.5	31.0	26.3
CD Drive1 Accessing (AD-7200S)	5.6	44.8	36.4
CD Drive2 Accessing (DH-16D3S)	5.4	43.4	36.0
Idle	4.5	31.3	26.4
CPU Stressed	4.5	31.2	26.2

⁴ 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.



X. PRODUCT MATERIALS INFORMATION⁵

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.

Materials Safety Data Sheet (MSDS)

The MSDS for this product (if applicable) can be viewed at: Materials Safety Data Sheets at Dell.com

Additional Materials Information

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

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

Part	Flame Retardant	ISO 1043-4
Motherboard	poly-dibromostyrene	FR(17), FR(63)
Mechanical Plastic Parts > 25 grams: Top/Bottom Cover (PC+ABS):	N/A	N/A

⁵ **Waste Handling.** Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.



XI. 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.

Packaging Materials	Weight, kg
Corrugated Cardboard	2.27 kg
Cushion (HDPE)	0.27 kg
Corrugated Cardboard (for Accessory)	0.63 kg

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

XII. 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
Disrechargeable Battery, 3V, CR2032, coin cell	Lithium
Disrechargeable Battery, 3V, CR-2032L/BE, coin cell	Lithium

XIII. 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.

XIV. 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.



XV. DELL CORPORATE ENVIRONMENTAL INFORMATION

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

Product Safety, EMC and Environmental Datasheets for Dell products are located at:
www.dell.com/regulatory_compliance_datasheets