



MARKETING NAME*: Latitude E6230
 REGULATORY MODEL: P14T
 REGULATORY TYPE: P14T001
 EFFECTIVE DATE: 2014/6/10

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 or TUV Rheinland
Australia	NATA [†]
Belarus	BELLIS
Cambodia	ISC or ISC [†]
Canada	SCC
China	CQC (CCC)
Croatia	KONCAR
European Union	CE
Germany	TUV Rheinland or TUV SUD
Germany	NEMKO
IECEE	IECEE CB
Israel	SII
Japan	PSE
Kazakhstan	OTAN – CKT
Kenya	KEBS
Kuwait	KUCAS
Mexico	NYCE (NOM)
Moldova	INSM
Nigeria	SONCAP
Norway	NEMKO
Russia	GOST
Saudi Arabia	KSA ICCP
Serbia	KVALITET
Singapore	Safety Registration Scheme or Safety Registration Scheme [†]
South Africa	NRCS
South Korea	KC or KETI (eK) [†]
Taiwan	BSMI
Ukraine	UKRTEST or UKRSERTCOMPUTER
United States	NFPA
United States	NRTL
Uzbekistan	STZ

* Notice: This product has been assigned a unique regulatory model and regulatory type that is imprinted on the product shipping invoice and product labeling to provide traceability to the regulatory approvals noted on this datasheet. This datasheet applies to any product that utilizes the assigned regulatory model and type including marketing names other than those listed on this datasheet. Requests for specific information on product regulatory approvals should reference the assigned product regulatory model and type.

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

[†] Product Safety certification is specific to the AC Adapter only.



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
Australia / New Zealand	ACMA (C-Tick)	Class B
Belarus	BELLIS	Class B
Bosnia & Herzegovina, Montenegro, Serbia	KVALITET	Class B
Canada	ICES	Class B
China	CQC (CCC)	Class B
Croatia	KONCAR	Class B
European Union	CE	Class B
Israel	SII	Class B
Japan	VCCI	Class B
Kazakhstan	OTAN – CKT	Class B
Moldova	INSM	Class B
Norway	NEMKO	Class B
Russia	GOST	Class B
South Africa	SABS	Class B
South Korea	KC	Class B
Taiwan	BSMI	Class B
Ukraine	UKRTEST or UKRSERTCOMPUTER	Class B
United States	FCC	Class B
Uzbekistan	STZ	Class B
Vietnam	ICT	Class B

This model Dell notebook for use with the following adapters:

Delta/ DA65NM111-00; Delta/DA90PM111
 LiteOn/ LA65NS2; LiteOn/LA90PM111;
 Flextronics/ FA90PM111;
 Chicony (Hipro)/ HA65NS5-00;
 API/ AA65NM121; API/AA90PM111

Mfr Name/Safety Model Number

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
Belarus	BELLIS
Germany	GS
Russia	GOST

NFPA 99 Conformity Statement

All AC Adapters provided with Dell notebook computers comply with the chassis leakage current requirements as defined by clause 8.4.1.3.5 of National Fire Protection Association standard NFPA 99:2005...leakage current equal to or less than 300uA @ 127 VAC/60 Hz.

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

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



MODEM DEVICE

This Dell printer includes a **Modem**. Please refer to the **Modems** section included on this website for the text applicable to the **Modem** which is embedded within your printer.

WIRELESS DEVICE

This Dell printer may include a Wireless Device. If you elected to purchase a Wireless Device for inclusion within your Printer, please refer to the Wireless Device section included on this website for the text applicable to the Wireless Device embedded within your printer.

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
Regulatory_Compliance@Dell.com

VI. TRADE (IMPORT/EXPORT) COMPLIANCE DATA

For any questions related to importing & exporting classification of Dell products, please obtain information from the following link: www.dell.com/import_export_compliance or send request to WW_Export_Compliance@dell.com

VII. SYSTEM DIMENSION AND WEIGHT

Depth, mm/cm	Width, mm/cm	Height, mm/cm	Weight, kg	Optimal Resolution (Display Only)
226 mm	309 mm	24.7 mm	1.7 kg	NA

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:

Country	Approvals	Certified or Registered Compliance
China	CEC	YES
China	CECP	YES
South Korea	E-standby	YES
Mexico	MEL	YES
Taiwan	TGM	On going

* EPEAT registered where applicable/supported see: [Desktops](#), [Monitors](#), [Notebooks](#), [Workstation-Desktops](#), and [Workstation-Notebooks](#) for registration status by country.



Dell's Energy Star qualified products are listed on the EPA website [here](#)

Information on Dell's participation in various Eco-labels and Green Standards can be found [here](#).

IX. PERFORMANCE DATA (ErP Lot 3 information is located in section XIII Appendix A)

System Configuration

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

Processor	Intel i7-3520M, 2.9GHz
Hard Drive(s)	320GB
Memory	8G*2
Video Card	UMA
RMSD / Optical Drive	DVDRW
Power Supply (Internal or External)	External
Power Supply Size in Watts	90 W
Power Supply Efficiency Level	V

Energy Consumption⁴

Energy efficiency benefits the environment and lowers the total cost of equipment ownership by reducing power consumption. Dell offers energy calculators that help estimate power needs, potential emissions avoidance and potential cost savings. Click [here](#) for Dell's Client Energy Savings Calculator, Data Center Capacity Planner, and Monitor Power Savings Calculator. Information on Energy Efficiency is available [here](#)

Client Computers:

Service Level	Energy Consumption (Wattage)	BTU Calculation	Description of Service Level
*Maximum	46.84	160.19	The system is running programs to maximize the power consumption.
Idle Mode	8.53	29.18	As specified EPA Energy Star Computer mode.
S3 "Sleep" Mode	1.23	4.21	Suspend-to-RAM (low-power/sleep mode)
Off	0.42	1.44	System is turned off but still connected to its AC power source. If the product is a computer, the Low Power Mode feature is enabled via BIOS if available.
External Power Supply "No-Load" (if applicable)	0.09	0.30	AC adapter connected to mains with system detached otherwise known as "No-load" condition.

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

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. BTU is calculated based upon the wattage reading taken in the given mode. To convert Watts to BTU, (1 Watt = 3.42 BTU)

If applicable, 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).

ErP compliance is tied to the CE mark.

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.



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

Computers

Service Level	Sound Power (LWAd, bels) (1 bel=10 decibels, re 10-12 Watts)	Sound Pressure Operator Position (LpAm, decibels) (re 2x10-5 Pa)	Sound Pressure Bystander Position (LpAm, decibels) (re 2x10-5 Pa)
Hard Drive Accessing	3.7	31.2	24.2
Optical Drive Accessing	N/A	N/A	N/A
Idle	2.9	27.9	20.6
CPU activated (at a utilization of 50%) ECMA-74	3.7	31.2	24.2

PRODUCT MATERIALS INFORMATION⁵

Dell has implemented process controls and corrective actions throughout its organization and supply chain to ensure that its chemicals management objectives are met — and that the targeted restricted materials are replaced and alternative materials are developed for future product generations. Process controls that Dell implemented include piece-part supplier declarations and Dell factory and supplier material testing audits. To review Dell’s Restricted Material Guidance document click [here](#). Information on Dell’s material use is available [here](#).

Restricted Substances

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

All Dell products shipping to South Korea are compliant with South Korea RoHS requirements, declarations [here](#).

Information on Japan RoHS (J-MOSS) chemical disclosures is available [here](#).

REACH (Registration, Evaluation, Authorization and Restriction of Chemicals, 1907/2006) is the European Union’s (EU) chemical substances regulatory framework. Dell complies with the REACH directive. For more details, see www.dell.com/REACH

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)
- Ozone Depleting Substances; 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)

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.



- Nickel and its compounds in components that are likely to result in prolonged skin exposure
- PCBs (polychlorobiphenyls)
- PCTs (polychloroterphenyls)
- PBBs (polybromobiphenyls)
- PBDEs (polybrominated diphenylethers)
- BFR (brominated flame retardants) and PVC (polyvinyl chloride) in plastic parts greater than 25 grams
- Polychlorinated naphthalenes (PCNs)
- Tributyl tin (TBT)
- Triphenyl tin (TPT)

Additional Materials Information

- External and/or Internal cables may use PVC as an insulating material to ensure product safety
- The case material is, > LCD cover: Mg-Al ; LCD bezel: PC+ABS ; Logic upper: Mg-Al ; Logic lower: Mg-Al <
- Product may contain post-industrial recycled content (plastics, metal, glass)
- This product contains 0% post-consumer recycled plastic
- Materials that may require special handling, please see WEEE Product End-of-Life Instructions [here](#)
- Marking of plastic parts greater than 25 grams are done in accordance with ISO 11469 (see below)

Flame Retardants Used in Motherboard

Part	Flame Retardant
Motherboard	3-4% (DOPO)
Motherboard	2-6 % (P series flame retardant)

Flame Retardants Used in Mechanical Plastic Parts > 25 grams

Resin Material Name	Marking per ISO 11469:2000, 11469:1996	Flame Retardant Marking per ISO 1043-4 (i.e. FR(16), FR(40), etc.)	Flame Retardant (i.e. TBBPA, triaryl phosphate ester, etc.)	List applicable R-Phrase(s) or Hazard Statement(s) per EU Directive 67/548/EEG or 1272/2008
PC	>PC<	N/A	N/A	N/A

Mercury Information

Number of bulbs	Average per bulb
0	NA



XI. PACKAGING

Information on Dell's sustainable packaging effort available [here](#).

No CFCs (chlorofluorocarbons), HCFCs (hydrofluorocarbons) or other ozone depleting substances are used in packaging material. Chromium, lead, mercury, 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. Plastics packaging materials marked according to SPI (Society of Plastics Industry) Coding System.

Additional materials restricted in Packaging as per Dell's Restricted Material Guidance document found [here](#).

Packaging Materials	Total Weight of each Material type, (kg)	% of Post-Consumer Recycled Content (PCR)		
		APJ region	DAO region	EMEA region
Corrugated Fiberboard	0.875	80	80	80
Molded Bamboo	0.21	0	0	0
LDPE Bags	0.008	0	0	0

Printed user documentation is bleached in a chlorine-free process.

XII. BATTERIES

Below is a listing of batteries that could be present in the product:

Battery Description – Internal Batteries	Battery Type	Battery Weight (kg)
CR-2032 with cable wire	Lithium	0.004 (max)
3 cell 32Wh battery	Lithium	0.18 (max)
6 cell 58&65Wh battery	Lithium	0.348 (max)

- Batteries used in this product are in compliance with EU Battery Directive 2006/66/EC.
- Batteries in this product are not based on mercury, lead or cadmium technologies.
- Information about takeback and the recycling of batteries can be found in the in the Recyclability section below.
- The product documentation includes instructional information on the proper removal and disposal of the batteries used in this product.
- Dell MSDS sheets available [here](#).

XIII. DESIGN FOR ENVIRONMENT

Longevity and Upgrading

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. Connections are easy to find and accessible with commonly available tools. To extend the life of your system, you can install or upgrade certain system components (e.g., microprocessor, memory, expansion cards, optical drives, and storage devices). Spare parts (such as batteries, power supplies, keyboard parts) are available after the end of production for up to five years, or otherwise through the warranty period.

Recyclability



Information for recycling is available [here](#).

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
- WEEE Product End-of-Life Instructions are available [here](#)
- Plastic parts heavier than 25g have material codes according to ISO 11469:2000.
- Minimal use of composite structure materials.
- Minimal use of non-separable connections, such as gluing and welding between different materials
- Painting/coating of Desktop chassis plastics has been avoided
- Painting/coating of plastics <100 grams is compatible with recycling or reuse
- 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.

Dell's Corporate Responsibility Policies are available [here](#).

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

Dell is a member of the Electronic Industry Citizenship Coalition (www.eicc.info)

Dell's commitment to accountability and assurance is further demonstrated in leveraging the Global Reporting Initiatives (GRI) G3 Guidelines in the preparation of our annual summary report and Web site. We are self-reporting at a B level and have submitted our self-report to GRI to check it against the criteria for GRI Application Level B. To view GRI Index 2009 click [here](#).

Dell holds International Organization for Standardization (ISO) and Occupational Health & Safety Assessment Series (OHSAS) certifications/registrations in a number of important areas including global product development and recycling/take-*back programs, quality, safety, and health and environment. You can view or download copies of certificates [here](#).



XVI. APPENDIX A: ErP Lot 3 Product (Energy Consumption) Information

The ErP Lot 3 Standard includes requirements for certain product specific information to be provided by the manufacturer. This is applicable to Desktops, Integrated Desktops, Notebooks, Tablets, Slates, Notebook Thin Clients, Desktop Thin Clients, Workstations, Mobile Workstations, Computer Servers, and Small Scale Servers.

Category	Category A
Processor Speed in GHz	2.9
Number of Cores	2
Total Installed System Memory in GB	4
Graphics	Integrated
WOL enabled in "Sleep" Mode	No
WOL enabled in "Off" Mode	No
<i>As Tested: Lowest Power State</i>	0.43
<i>As Tested: Poff(W) WOL Disabled</i>	0.43
<i>As Tested: Poff(W) WOL Enabled</i>	
<i>As Tested: Psleep(W) WOL Disabled</i>	1.57
<i>As Tested: Psleep(W) WOL Enabled</i>	
<i>As Tested: Pidle(W)</i>	8.82
Base TEC Limit (kWh)	36
TEC Adders Limit (kWh)	0.00
Base + Adders TEC Limit (kWh)	36.00
Results TEC	26.81

* **Energy Consumption** results are based solely upon the laboratory testing of the **System Configuration** listed above. Energy consumption is tested at 230 Volts / 50 Hz.

Energy Consumption*

Energy efficiency benefits the environment and lowers the total cost of equipment ownership by reducing power consumption. Dell offers energy calculators that help estimate power needs, potential emissions avoidance and potential cost savings. Click [here](#) for Dell's Client Energy Savings Calculator, Data Center Capacity Planner, and Monitor Power Savings Calculator. Information on Energy Efficiency is available [here](#)

* 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.

For more details visit www.dell.com/environmental_information



Power Supply Model #	Internal or External	Link to efficiency report
DA65NM1111-00	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5478051&appliance=EPS&nr=1
DA90PM111	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5478054&appliance=EPS&nr=1
LA65NS2	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5485275&appliance=EPS&nr=1
LA90PM111	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5485277&appliance=EPS&nr=1
FA90PM111	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5477406&appliance=EPS&nr=1
HA65NS5-00	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5470487&appliance=EPS&nr=1
AA65NM121	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5477379&appliance=EPS&nr=1
AA90PM111	External	http://oe.e.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&operation=details-details&ref=5477380&appliance=EPS&nr=1