



MARKETING NAME.....Inspiron 15-3551  
REGULATORY MODEL.....P47F  
REGULATORY TYPE.....P47F002  
EFFECTIVE DATE.....December 16, 2014  
EMC EMISSIONS CLASS...B

Dell Inc.  
www.dell.com

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## STATEMENT OF COMPLIANCE

This product has been determined to be compliant with the applicable standards, regulations, and directives for the countries where the product is marketed. The product is affixed with regulatory marking and text as necessary for the country/agency. Generally, Information Technology Equipment (ITE) product compliance is based on IEC and CISPR standards and their national equivalent such as Product Safety, IEC 60950-1 and European Norm EN 60950-1 or EMC, CISPR 22/CISPR 24 and EN 55022/55024. Dell products have been verified to comply with the EU RoHS Directive 2011/65/EU. Dell products do not contain any of the restricted substances in concentrations and applications not permitted by the RoHS Directive.

EMC Emissions Class refers to one of the following use environments:

- EMC Class B products are intended for use in residential/domestic environments but may also be used in non-residential/non-domestic environments.
- EMC Class A products are intended for use in non-residential/non-domestic environments. Class A products may also be utilized in residential/domestic environments but may cause interference and require the user to take adequate corrective measures.

For Product Safety and EMC compliance, this product has been assigned a unique regulatory model and regulatory type that is imprinted on the 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. ErP compliance is tied to the CE mark.

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 information on SVHC (Substances of Very High Concern), see [www.dell.com/REACH](http://www.dell.com/REACH).

Compliance documentation, such as certification or Declaration of Compliance for the product is available upon request to [regulatory\\_compliance@dell.com](mailto:regulatory_compliance@dell.com). Please include product identifiers such as marketing name, regulatory module, regulatory type and country that compliance information is needed in request.



**I. GLOBAL ENVIRONMENTAL INFORMATION**

Environmental (Voluntary Marks)		
Country	Approval	Compliance
Global	ENERGY STAR (Configuration Dependent)	Computers , Version 6.1
Varies by country – see EPEAT.net	EPEAT (Configuration Dependent)	Silver
California	Small Battery Charger System	Yes
India	BEE Star	Yes
South Korea	e-Standby	Yes
Mexico	Energy Labeling Law	Yes

**Adapter Certification and Declaration**

Country	Authority/Mark
Australia/New Zealand	Australia/NZ MEPS
South Korea	South Korea MEPS
Canada	NRCan
California Energy Commission	Adapter & Battery Charger
EU	Regulation EC No 278/2009

**II. 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.

**III. 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](mailto:Regulatory_Compliance@Dell.com)

**IV. 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](http://www.dell.com/import_export_compliance) or send request to [WW\\_Export\\_Compliance@dell.com](mailto:WW_Export_Compliance@dell.com)

**V. SYSTEM DIMENSION AND WEIGHT**

Depth, mm/cm	Width, mm/cm	Height, mm/cm	Weight, kg
260.3mm	380mm	21.7mm	2.213 Kg (depending upon installed options)

**VI. PERFORMANCE DATA (ErP Lot 3 information is located in section XIV Appendix A)**

\* **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](http://www.dell.com/environmental_information)

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

**VII. PRODUCT MATERIALS INFORMATION<sup>1</sup>**

Information on Dell's material use is available [here](#).

To review Dell's Restricted Material Guidance document click [here](#).

- The case material is, > PC+ABS <
- This product contains 0% post-consumer recycled plastic
- Marking of plastic parts greater than 25 grams are done in accordance with ISO 11469 (see below)

Product is BFR/PVC Free  Yes  No

**Flame Retardants Used in Motherboard**

Part	Flame Retardant
Motherboard	TBBPA

**Flame Retardants Used in Mechanical Plastic Parts > 25 grams**

Resin Material Name	Marking per ISO 1146 9:2000, 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
Bayer, FR3021	>PC+ABS FR(40)<	FR(40)	Organo Phosphate	N/A
Mitsubishi, MB1700	>PC+ABS FR(40)<	FR(40)	Organo Phosphate	N/A
Mitsubishi, TMB1615	>PC+ABS FR(40)<	FR(40)	Organo Phosphate	N/A

**Mercury Information**

Number of bulbs	Average per bulb
0	0 mg

**DECLARATION OF CONFORMITY WITH GAZETTE OF INDIA: EXTRAORDINARY, E-WASTE (MANAGEMENT & HANDLING) RULES (INDIA ROHS)**

Manufacturer Name and Address:

Dell Inc.  
One Dell Way

<sup>1</sup> **Waste Handling.** Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.



Round Rock, Texas, USA  
78682

Dell Inc. declares that all Dell branded products have been designed and manufactured in compliance with E-Waste (Management & Handling) Rules<sup>2</sup> on the reduction in the use of hazardous materials in the manufacture of electrical and electronic equipment and their maximum allowed concentrations by weight in the homogenous material (except for the exemptions listed in schedule II).

Substance	Concentration
Lead	0.1%
Mercury	0.1%
PBB (Polybrominated Biphenyls)	0.1%
PBDE (Polybrominated Diphenyl Ethers)	0.1%
Hexavalent Chromium	0.1%
Cadmium	0.01%

Compliance has been verified via internal design controls, supplier declarations, and/or analytical test data. The undersigned below possesses the complete technical documentation relating to the declaration of compliance.

**For additional information please visit:**

- Restricted Material Compliance [www.dell.com/environmental\\_information](http://www.dell.com/environmental_information)
- Products MSDS (Material Safety Data Sheets):

Batteries: [Battery MSDS Documentation and Declaration](#)

**VIII. PACKAGING**

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

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- Box	0.426	80%	80%	80%
Corrugated Fiberboard-Acc Tray	0.044	80%	80%	80%
EPE Sheet (LCD Pad)	0.001	0%	0%	0%
Molded paper pulp	0.220	99.5%	99.5%	99.5%
PE Bag	0.020	0%	0%	0%

**IX. BATTERIES**

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

Battery Description – Batteries	Battery Type	Battery Weight (kg)
CR-2032 coin cell	Lithium	Max: 0.0032
4-cell 40Whr smart lithium	Lithium Ion	0.26
4-cell 47Whr smart lithium	Lithium Ion	0.26

**X. DESIGN FOR ENVIRONMENT**

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing.

For more information on product Recyclability please visit [www.dell.com/environmental\\_information](http://www.dell.com/environmental_information)

<sup>2</sup> E-Waste (Management & Handling) Rules 2011, by the Ministry of Environment & Forests, Government of India dated May 12, 2011.



**XI. 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](mailto:recycling_emea@dell.com) or visit [www.dell.com/recyclingworldwide](http://www.dell.com/recyclingworldwide) and select the relevant country.

**XII. HELPFUL LINKS**

- **Environmental Policy**  
<http://i.dell.com/sites/content/corporate/corp-comm/en/Documents/dell-global-environmental-policy.pdf>
- **Environment Website**  
[www.dell.com/earth](http://www.dell.com/earth)
- **Corporate Sustainability Report**  
<http://www.dell.com/Learn/us/en/uscorp1/report?c=us&l=en&s=corp&delphi:gr=true>
- **ISO 14001 Certification**  
<http://i.dell.com/sites/content/corporate/corp-comm/en/Documents/dell-iso14001-worldwide.pdf>
- **Materials Restricted for Use**  
[http://www.dell.com/downloads/global/corporate/enviro/restricted\\_materials\\_guid.pdf](http://www.dell.com/downloads/global/corporate/enviro/restricted_materials_guid.pdf)
- **Chemical Use Policy**  
<http://i.dell.com/sites/doccontent/corporate/environment/en/Documents/chemical-use-policy.pdf>
- **Client Energy Calculator**  
<http://www.dell.com/content/topics/topic.aspx/global/products/landing/en/client-energy-calculator?c=us&l=en>
- **Product Carbon Footprint**  
[http://content.dell.com/us/en/corp/d/corp-comm/environment\\_carbon\\_footprint\\_products](http://content.dell.com/us/en/corp/d/corp-comm/environment_carbon_footprint_products)
- **RoHS Compliance**  
[www.dell.com/rohsinfo](http://www.dell.com/rohsinfo)
- **REACH Compliance**  
[www.dell.com/REACH](http://www.dell.com/REACH)
- **Recycling Information**  
[www.dell.com/recycling](http://www.dell.com/recycling)
- **Supplier Responsibility**  
<http://content.dell.com/us/en/corp/d/corp-comm/standards-for-suppliers.aspx>

**XIII. 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. ErP Lot 3 provides certain exclusions based upon product type, screen size, and/or the amount of power consumed in idle mode. Product energy and acoustic information might be reported for products that are out of scope of ErP Lot 3 for informational purposes only.

Category	Category A		
Processor Speed in GHz	2.16	0	0
Number of Cores	4	0	0
Total Installed System Memory in GB	4	0	0
Graphics	Integrated	Select	Select
WOL enabled in "Sleep" Mode	No	No	No
WOL enabled in "Off" Mode	No	No	No
<i>As Tested: Lowest Power State</i>	0.38		
<i>As Tested: Poff(W) WOL Disabled</i>	0.38		
<i>As Tested: Poff(W) WOL Enabled</i>			
<i>As Tested: Psleep(W) WOL Disabled</i>	0.47		
<i>As Tested: Psleep(W) WOL Enabled</i>			
<i>As Tested: Pidle(W)</i>	3.71		
<b>Base TEC Limit (kWh)</b>	<b>36</b>	<b>0</b>	<b>0</b>
<b>TEC Adders Limit (kWh)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Base + Adders TEC Limit (kWh)</b>	<b>36.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Results TEC</b>	<b>12.17</b>	<b>0.00</b>	<b>0.00</b>



**Client Computers:**

Service Level	Energy Consumption	BTU Calculation	Description of Service Level
*Maximum	33.86	115.80	The system is running programs to maximize the power consumption.
Idle Mode	3.71	12.68	As specified EPA Energy Star Computer mode.
S3 "Sleep" Mode	0.47	1.60	Suspend-to-RAM (low-power/sleep mode)
Off	0.38	1.31	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	0.31	AC adapter connected to mains with system detached otherwise known as "No-load" condition.

Power Supply Model #	Internal or External	Link to efficiency report
HK45NM140	External	<a href="http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=9606232&amp;appliance=EPS&amp;nr=1">http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=9606232&amp;appliance=EPS&amp;nr=1</a>
HA45NM140	External	<a href="http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=9873972&amp;appliance=EPS&amp;nr=1">http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=9873972&amp;appliance=EPS&amp;nr=1</a>
DA45NM140	External	<a href="http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=11776224&amp;appliance=EPS&amp;nr=1">http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=11776224&amp;appliance=EPS&amp;nr=1</a>
LA45NM140	External	<a href="http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=10012818&amp;appliance=EPS&amp;nr=1">http://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.formHandler&amp;operation=details-details&amp;ref=10012818&amp;appliance=EPS&amp;nr=1</a>

\* **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\*

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For more details visit [www.dell.com/environmental\\_information](http://www.dell.com/environmental_information)

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

**Computers Category A:**

Service Level	Sound Power ( $L_{WA,d}$ , bels) (1 bel=10 decibels, re $10^{-12}$ Watts)	Sound Pressure Bystander Position ( $L_{pA,m}$ , decibels) (re $2 \times 10^{-5}$ Pa)
Hard Drive Accessing	2.7	17.1
Optical Drive Accessing	N/A	N/A
Idle	2.6	16.7

**Computers Category B:**

Service Level	Sound Power ( $L_{WA,d}$ , bels) (1 bel=10 decibels, re $10^{-12}$ Watts)	Sound Pressure Bystander Position ( $L_{pA,m}$ , decibels) (re $2 \times 10^{-5}$ Pa)
Hard Drive Accessing	N/A	N/A
Optical Drive Accessing	N/A	N/A
Idle	N/A	N/A

**Computers Category C:**



Service Level	Sound Power ( $L_{WA,dr}$ , bels) (1 bel=10 decibels, re $10^{-12}$ Watts)	Sound Pressure Bystander Position ( $L_{pAmr}$ , decibels) (re $2 \times 10^{-5}$ Pa)
Hard Drive Accessing	N/A	N/A
Optical Drive Accessing	N/A	N/A
Idle	N/A	N/A

Computers Category D:

Service Level	Sound Power ( $L_{WA,dr}$ , bels) (1 bel=10 decibels, re $10^{-12}$ Watts)	Sound Pressure Bystander Position ( $L_{pAmr}$ , decibels) (re $2 \times 10^{-5}$ Pa)
Hard Drive Accessing	N/A	N/A
Optical Drive Accessing	N/A	N/A
Idle	N/A	N/A

XIV. APPENDIX B: ErP Lot 26 Network Standby (Energy Consumption) Information

The ErP Lot 26 Standard includes Network Standby power requirements to be provided by the manufacturer. This is applicable to multiple product categories. If no information is reported, it's assumed it is out of scope of ErP Lot 26.