



MARKETING NAME.....Inspiron 17-5755
REGULATORY MODEL.....P28E
REGULATORY TYPE.....P28E002
EFFECTIVE DATE.....April 21, 2015
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.

Compliance documentation, such as certification or Declaration of Compliance for the product is available upon request to 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	ENERGY STAR 6.1
Varies by country – see EPEAT.net	EPEAT (Configuration Dependent)	Silver
USA	California Energy Commission	Yes

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

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 or send request to WW_Export_Compliance@dell.com

V. SYSTEM DIMENSION AND WEIGHT

Depth, mm	Width, mm	Height, mm	Weight, kg
283.20	416.90	29.20	3.34 Kg (depending upon installed options)

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

VII. PRODUCT MATERIALS INFORMATION¹

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-FR(40)<
 - 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

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



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.)
AAL30_LCD_BEZEL_TOUCH	>PC+ABS-FR(40)<	FR(40)	Organo Phosphate
AAL30_LCD_BEZEL	>PC+ABS-FR(40)<	FR(40)	Organo Phosphate
AAL30_LCD_COVER_IMR	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate
AAL30_LCD_COVER_IMR_TS_SILVER	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate
AAL30_LCD_COVER_GLOSS_BLACK	>PC+ABS-I-MD8FR(40)<	FR(40)	Organo Phosphate
AAL30_LOG_UP	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate
AAL30_LOG_UP_IO_FRAME_RJ45	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate
AAL30_LOG_UP_TEXTURE	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate
AAL30_UP_IO_FRAME_GLOSS_RJ45	>PC+ABS-I-MD8FR(40)<	FR(40)	Organo Phosphate
AAL30_BATTERY_COVER	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate
AAL30_LOG_LOW	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate
AAL30_HDD_DOOR	>PC+ABS-TD15 FR(40)<	FR(40)	Organo Phosphate

Mercury Information

Number of bulbs	Average per bulb
0	NA

For additional information please visit:

- Restricted Material Compliance www.dell.com/environmental_information
- Products MSDS (Material Safety Data Sheets):

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

Printer Toner and Ink: [MSDS Documentation](#)

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	0.562	80%	80%	80%
EPE	0.012	0	0	0
Molded paper pulp	0.256	100%	100%	100%
LDPE Bags	0.014	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 with cable wire	Lithium	0.005 (max)
Rechargeable Battery 4 cell 40Wh	Lithium Ion	0.250 (max)
Rechargeable Battery 4 cell 47Wh	Lithium Ion	0.250 (max)



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

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 or visit 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
- **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/envIRON/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
- **RoHS Compliance**
www.dell.com/rohsinfo
- **REACH Compliance**
www.dell.com/REACH
- **Recycling Information**
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	2.2
Number of Cores	4
Total Installed System Memory in GB	16
Graphics	Integrated
WOL enabled in "Sleep" Mode	No
WOL enabled in "Off" Mode	No
<i>As Tested:</i> Lowest Power State	0.34
<i>As Tested:</i> Poff(W) WOL Disabled	0.34
<i>As Tested:</i> Poff(W) WOL Enabled	0.35
<i>As Tested:</i> Psleep(W) WOL Disabled	0.85
<i>As Tested:</i> Psleep(W) WOL Enabled	0.87
<i>As Tested:</i> Pidle(W)	6.18
Base TEC Limit (kWh)	27
TEC Adders Limit (kWh)	4.80
Base + Adders TEC Limit (kWh)	31.80
Results TEC	18.78

Power Supply Model #	Internal or External	Link to efficiency report
DA45NM140	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=11776224&appliance=EPS&nr=1
LA45NM140	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=10012818&appliance=EPS&nr=1
HA45NM140	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=9873972&appliance=EPS&nr=1
HK45NM140	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=9606232&appliance=EPS&nr=1
DA65NM111-00	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=5478051&appliance=EPS&nr=1
HA65NS5-00	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=5470487&appliance=EPS&nr=1
LA65NS2-01	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=5485275&appliance=EPS&nr=1
AA65NM121	External	http://oee.nrcan.gc.ca/pml-imp/index.cfm?action=app.formHandler&operation=details-details&ref=5477379&appliance=EPS&nr=1

* **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

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

Computers Category A:

Service Level	Sound Power (L_{WAdr} , bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Bystander Position (L_{pAmr} , decibels) (re 2×10^{-5} Pa)
Hard Drive Accessing	2.8	16.8
Optical Drive Accessing	-	-
Idle	2.8	16.9

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.

SECTION 7: Power Consumption Measurements	
Cut & Paste section below as a Picture into Dell P/N ENV0023 (EDS) in the bottom in section XIII. APPENDIX A: ErP Lot 3 & Lot 26 Product (Energy Consumption) Info unless information in User	
Network Standby Classification	LoNA
Off/Standby - Watts	0.35
Network Standby - Watts	0.87
Number of Network Ports	1
Location of 'Physical' Network Ports	Side
Network Port Type	Ethernet RJ-45
Network Port(s) Activated or Deactivated	Network Port(s) "Activated"
Network Port Maximum Performance in GB/s	100 Mbps
Communication protocol used by equipment	Ethernet - TCPIP
Description of how to assert Network Standby Mode	Information available @ www.dell.com/regulatory_compliance and/or www.dell.com/support
Sequence of events to trigger automatic assertion of Network Standby Mode	
Notes regarding operation of the equipment EX: how the user switches the equipment into network standby	
Default time for PM function to switch equipment into this mode	
Inactivity time required to enter Network Standby	
Re-activation trigger	
Measurement Method	