Product Compliance Datasheet

MARKETING NAME/MODEL NO……: PowerEdge T160

REGULATORY MODEL…..…..: E105S

REGULATORY TYPE……..…: E105S001

EMC EMISSIONS CLASS…...: B

EFFECTIVE DATE[1]……..…...: May 29, 2024

REVISED DATE2……..…...: May 16, 2024

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[1] Effective Date refer to product that is available to market (RTS/Launch)
[2] Revision Date refer to the Datasheet has been updated to capture the latest information

I. Regulatory Model Reference Information

Dell EMC storage, data protection and converged infrastructure *systems* are configured-to-order from combinations of different storage *platforms* and/or *server* appliances. This Product Compliance Datasheet applies strictly to the single *platform* or *appliance* as designated in the Regulatory Model field on the title page. This datasheet does NOT apply to the parent *systems* that incorporate this Regulatory Model, nor does it apply to any other Regulatory Models that may be peers integrated alongside this Regulatory Model in parent *systems*.

For reference purposes, the table below provides a list of the Marketing Names of the systems that may incorporate this Regulatory Model. The listed systems may include one or more additional Regulatory Models. A Regulatory Model Reference Letter that lists all the Regulatory Models included in each system is available for each Marketing Name at https://support.dellproductcompliance.com .

Regulatory Model to Marketing Name Reference	
Platform or Appliance Type	1S Tower Server
Regulatory Model Number	E105S
System Trade Name / Trademark	DELL or DELL EMC
System Marketing Name(s) that incorporate this Regulatory Model	PowerEdge T160

II. 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. Dell manufacturers and markets Multimedia Equipment (MME), Information Technology Equipment (ITE), Audio Visual Equipment (A/V), Industrial, Scientific, Medical Equipment (ISM) or combinations of these. Generally, products Electromagnetic Compatibility (EMC) and Product Safety compliance is based on International IEC and CISPR standards and their national equivalent along with national standards for Radio (wireless), Telecommunications (Modem) and Energy. Dell products have been verified to comply with the Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU of the European Parliament and the Council. Dell product does 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 product is intended for use in residential/domestic environments but may also be used in nonresidential/non-domestic environments.
- EMC Class A product is intended for use in non-residential/non-domestic environments. Class A product 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 regulatory 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. Dell products with the CE marking have been verified to comply with Energy Related Products (ErP) Directive 2009/125/EC of the European Parliament and of the Council. https://www.dell.com/ErP User Information. REACH (Registration, Evaluation, Authorization and

Restriction of Chemicals), Regulation (EC) 1907/2006 of the European Parliament and of the Council is the European Union's (EU) chemical substances regulatory framework. Dell complies with the REACH regulation. For information on SVHC (Substances of Very High Concern), see www.dell.com/REACH. This products compliance documentation, such as this datasheet and the European Union Declaration of Conformity are available on the product support page, manuals tab http://www.dell.com/support. Additional compliance documentation for the product is available upon submitting a request at https://support.dellproductcompliance.com Please include product identifiers such as marketing name, regulatory model, regulatory type, and country that compliance information is needed in the email request.

III. Global Environmental Information

Environmental (Voluntary Marks)		
Country	**Approval**	**Compliance**
Global	ENERGY STAR (Configuration Dependent)	*4.0*
China	CECP	Yes
China	CEC	Yes
Varies by Country See EPEAT.net	EPEAT (Configuration Dependent)	Refer to EPEAT.net for specific registration levels and countries

* ENERGY STAR 4.0 Compliance is applicable to PowerEdge Servers only.

IV. NFPA 99 Conformity

Select Dell systems have been tested and found to comply with the touch current requirements as defined in 10.3.5 of National Fire Protection Association standard NFPA 99:2021. The touch current does not exceed 100 µA with ground wire intact (if a ground wire is provided) and 500 µA with ground disconnected at 127 V AC, 60 Hz when tested in accordance with 10.3.5 of NFPA 99: 2021. To determine if this product complies with the above requirements, send a request to https://support.dellproductcompliance.com. Please include product identifiers such as marketing name, regulatory type and country for which compliance information is needed.

V. Declaration of Similarity

Object of the Declaration	
Product Type	Server
Regulatory Model Number	E105S
Regulatory Type Number	E105S001
Trade Name/ Trademark	DELL or DELL EMC
Marketing Name(s)	PowerEdge T160

Dell Inc. herby declares that the products identified by the product designations listed in this declaration are strictly identical in design (shape, opening, etc.) components, materials, manufacturing process, and markings except for product designation – Trade Name and/or Trade Mark as specified in this declaration.

The products may have very minor differences which do not impact the level of conformity. All products identified by the product designations in this declaration have the same level of conformity

according to the certificate(s) provided.

The Trade Name / Trademark and/or Marketing Name(s) are the property of Dell Inc.
Any differences in the product designation are for marketing purposes only.

Dell Inc. herby declares that the platforms or appliances designated by the Regulatory Model listed in this declaration are strictly identical in design (shape, opening, etc.) components, materials, manufacturing process, and markings except for product designation – Trade Name and/or Trade Mark as specified in this declaration.

The platforms or appliances may have very minor differences which do not impact the level of conformity. All platforms or appliances identified by the Regulatory Model designations in this declaration have the same level of conformity according to the certificate(s) provided.

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The Trade Name / Trademark and/or Marketing Name(s) are the property of Dell Inc.
Any differences in the product designation are for marketing purposes only.

Date of Issue	May 29, 2024	Signature on behalf of Dell Inc.	Dell Inc. Dell Global Product Compliance and Environmental Affairs
Title	Dell Global Product Compliance and Environmental Affairs		

VI. 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.

VII. Trade (Import/Export) Compliance Data

For any questions related to importing & exporting classification of Dell products, please obtain information from the following link: http://www.dell.com/learn/us/en/uscorp1/import-export or send email request to WW_Export_Compliance@dell.com. Please include product identifiers such as marketing name, regulatory model, regulatory type, and country that compliance information is needed in the email request.

VIII. Product Dimensions and Weight

Depth, mm/cm	Width, mm/cm	Height, mm/cm	Weight, kg
405 mm	135 mm	330 mm	10.5 Kg (depending upon installed options)

For Display & Peripheral products please refer to the product edoc/user manual /spec on Dell.com for weight and dimension information.

IX. Product Energy Performance Data

ErP Lot 3, Lot 26 and ErP Lot 9 information is in Appendices A, B and C respectively.

For additional information on how Dell's commitment to energy efficiency benefits you go to: Reducing your Footprint

For additional information on ENERGY STAR models refer to the following database: ENERGY STAR Product Finder

The battery[ies] in this product cannot be easily replaced by users themselves.

X. Product Materials Information

Information on Dell's material use is available here.
Dell's Restricted Material for Use guidance document is available here.

Mechanical plastic parts are BFR/PVC free	☒ **Yes** ☐ **No** ☐ **NA**
Marking of plastics parts is in accordance with ISO 11469 (see below)	☒ **Yes** ☐ **No** ☐ **NA**
Printed circuit boards (without components) >0.5g are BFR PVC free	☐ **Yes** ☒ **No** ☐ **NA**
Insulation materials of external electrical cables are PVC free	☐ **Yes** ☒ **No**
Product is BFR/PVC Free (Accessories & Options may not be BFR/PVC-Free	☐ **Yes** ☒ **No**
Postconsumer recycled Plastics material content[3] is used in the product If yes, indicate the percentage of the postconsumer recycled material per total plastic weight of the product	☒ **Yes** ☐ **No** ☐ **NA** **__65___% PCR (Post Consumer Recycled) material in total plastic of product**

[3] This product contains x% post-consumer recycled plastic including closed loop recycled plastics (ITE-derived)* % Declaration to be the same in ENV0025 for Display & CP

Biobased Plastic material[4] content is used in the product. If yes, either indicate the percentage of the biobased plastic material per total plastic weight of the product	☐ **Yes** ☒ **No** ☐ **NA** **_____% biobased plastic material in total plastic of product**

Flame Retardants Used in Motherboard

Part	List the Flame Retardants
PCB[5]	DOPO
PCBA[6]	BPS、Antimony trioxide

Flame Retardants Used in Mechanical Plastic Parts[7]

The external case material is > _____ steel_____ <

Resin Material Name	Plastic Part Marking per ISO 11469:2016	Flame Retardant Marking per ISO 1043-4 (i.e. FR(16), FR(40), etc.)	List the Flame Retardants used on (i.e. BPA, etc)	List applicable R-Phrase(s) or Hazard Statement(s) per EU Directive 67/548/EEG or 1272/2008
JH960-6965	PC/ABS	FR(40)	non-halogen FR	N/A

Mercury Information

Number of bulbs	Average per bulb
0	0 mg

Additional information:

- Refer to Dell Technologies' Chemical Use Policy for more information on RoHS and REACH.
- Products MSDS (Material Safety Data Sheets):
  - Batteries: Battery MSDS Documentation and Declaration
  - Printer Toner and Ink: MSDS Documentation

[4] Bio-based plastics are fully or partially made from biological resources, rather than fossil raw materials. They are not necessarily compostable or biodegradable. It is important to examine the full life cycle of bio-based plastics, to ensure that they are beneficial to the environment beyond the reduction in use of fossil resources. This includes littering and changes in land use

[5] PCB (Printed Circuit Board) is a blank circuit board with no electronic components attached

[6] PCBA (Printed Circuit Board Assembly) is a completed assembly that contains all of the components required for the board to function as needed for the desired application

[7] According to ISO 11469 Marking of plastics products weighing 25 grams or more must be marked. Plastic Parts weighing less than 25 grams and having adequate surface area for coding should be marked.

XI. Packaging

Information on Dell's sustainable packaging effort available here. Additional materials restricted in Packaging as per Dell's Material Restricted for Use Standard document can be found at www.dell.com/restrictedsubstanceslist.

Packaging Materials	Total Weight, (g)	Sustainable Material Content[1] (e.g Recycled content *,bio-based, Sustainable Forested materials)	% Sustainable Material		
			APJ region	DAO region	EMEA region
Corrugated Fiberboard	2000	Recycled Content	Min 35%	Min 35%	Min 35%
LDPE (Including EPE Foam)	300	Recycled Content	0-80%	0-80%	0%

XII. Batteries

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

Battery Description – Batteries	Battery Type	Battery Weight (kg)	Rating
CR-2032 coin cell	Lithium Metal	0.003	3Vdc
Lithium Ion Battery(optional)	Lithium Ion	0.023	3.7Vdc 1.85Wh

XIII. Design for Environment

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. For more information on Dell's Environmental product attributes click here.

XIV. France Reparability Index

On January 1, 2021, France introduced a new Repairability Index for five categories of electronic devices, including laptops. The aim of this new Repairability Index is to inform customers about available repair options for a product prior to purchase.

The Repairability Index is a score ranging from 0 to 10/10, calculated based on five criteria:

1. **Documentation:** A score determined by the manufacturer's commitment to make technical documents available free of charge, in number of years, to repairers and consumers.
2. **Disassembly, tools, and fasteners:** A score determined by how easy it is to disassemble the product, the type of tools needed, and the characteristics of the fasteners.
3. **Availability of spare parts:** A score determined by the length of time the manufacturer commits to makes spare parts available for the product and the time it takes to deliver them.

4. **Price of spare parts:** A score determined by the ratio of the sale price of spare parts to the price of the product.
5. **Product specific:** A score determined by sub-criteria specific to the product category concerned, which may include availability of remote support, software updates, and resets.

The Repairability Index for this product and the parameters used to calculate the Repairability Index, are available on the product page.

XV. 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, please visit How to Recycle | Dell Technologies US and select the relevant country.

XVI. Helpful Links

- **Environmental Policy**
  https://i.dell.com/sites/csdocuments/Corporate_corp-Comm_Documents/en/dell-global-environmental-policy.pdf
- **Social Impact - Progress Made Real**
  https://corporate.delltechnologies.com/en-id/social-impact.htm
- **Advancing Sustainability**
  https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability.htm
- **ISO 14001 Certification**
  ISO Certification Certificate Environmental 14001 (delltechnologies.com)
- **Materials Restricted for Use**
  www.dell.com/restrictedsubstanceslist
- **Chemical Use Policy**
  http://i.dell.com/sites/doccontent/corporate/environment/en/Documents/chemical-use-policy.pdf
- **Product Carbon Footprint**
  https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-products-and-services/product-carbon-footprints.htm
- **RoHS Compliance**
- https://dellproductcompliance.atlassian.net/servicedesk/customer/portal/6/topic/4ef197b3-28bb-4ff8-96ce-0fcb642ecf8f/article/10289411
- **REACH Compliance**
  www.dell.com/REACH
- **Recycling Information**
  http://www.dell.com/recycling
- **Supplier Responsibility – Champion the Many People**
  https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/champion-the-many-people.htm

Appendix A: ErP Lot 3 Product Energy Consumption Information

European Union (EU) ErP Lot 3 (Commission Regulation (EC) No. 617/2013)
The ErP Lot 3 regulation includes requirements for certain product specific information to be provided by the manufacturer. This is applicable to Desktops, Integrated Desktops (All-in-One), Notebooks, Tablets, Slates, Notebook Thin Clients, Desktop Thin Clients, Workstations, Mobile Workstations, 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.

Additional information on ErP Lot 3, Lot 7 & Lot 26 available here.

Service Level	Energy Consumption (Wattage)	BTU Calculation	Description of Service Level
Maximum	174.01	595.11	System is running programs to maximize the power consumption
Idle	69.77	238.61	Operating system and other software have completed loading and activity is limited to those basic applications that the system starts by default
Sleep	N/A	N/A	(If supported) A low power mode the computer enters automatically after a period of inactivity
Off	4.91	16.79	System is turned off but still connected to its AC power source

Power Supply Model #	Internal or External	Link to efficiency report
D300EBS-00	Internal	https://www.clearesult.com/80plus/sites/80plus/files/manufacturer-certificate/dell-d300ebs00-163.pdf
L300EBS-00	Internal	https://www.clearesult.com/80plus/sites/80plus/files/manufacturer-certificate/dell-l300ebs00-161.pdf
H300EBS-00	Internal	https://www.clearesult.com/80plus/sites/80plus/files/manufacturer-certificate/dell-h300ebs00-203.pdf
L500EPS-01	Internal	https://www.clearesult.com/80plus/sites/80plus/files/manufacturer-certificate/dell-l500eps01-217.pdf
D500EPS-01	Internal	https://www.clearesult.com/80plus/sites/80plus/files/manufacturer-certificate/dell-d500eps01-300.pdf
HU500EPS-00	Internal	https://www.clearesult.com/80plus/sites/80plus/files/manufacturer-certificate/DELL_HU500EPS-00_500W_SOCE%206496_Report.pdf

* **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[8]
Energy efficiency benefits the environment and lowers the total cost of equipment ownership by reducing power consumption. Click here for Dell's Energy efficient products

Declared Noise Emissions in accordance with ISO 9296. Testing performed in accordance with ISO 7779 at operating modes defined by ECMA 74. Your product may perform differently, depending on the software, components, and peripherals you ordered. No warranty as to accuracy or completeness is expressed or implied.

Small Scale Servers:

Product Information	**<Insert description of server model and as-tested configuration>**		
Service Level	**Declared mean A-weighted sound power level, $L_{WA,m}$ (bels)**	**Statistical adder for verification, K_V (bels)**	**Declared mean A-weighted emission sound pressure level, $L_{pA,m}$ (dB)**
Idle	4.1	0.4	29
Operating Mode	4.1	0.4	29

[8] 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.