



Product Compliance Datasheet

MARKETING NAME.....: Dell EMC PowerEdge R450, PowerEdge R650xs

REGULATORY MODEL.....: E74S

REGULATORY TYPE.....: E74S001

EMC EMISSIONS CLASS.....: A

EFFECTIVE DATE.....: November 14, 2022

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I. 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.



II. Global Environmental Information

Environmental (Voluntary Marks)		
Country	Approval	Compliance
Global	ENERGY STAR (Configuration Dependent)	3.0
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

III. Declaration of Similarity

Object of the Declaration	
Product Type	Server
Regulatory Model Number	E74S
Regulatory Type Number	E74S001
Trade Name/ Trademark	DELL EMC
Marketing Name(s)	PowerEdge R450, PowerEdge R650xs

Dell Inc. hereby 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.

Date of Issue	November, 14, 2022	Signature on behalf of Dell Inc.	Dell Inc. Dell Global Product Compliance and Environmental Affairs
Title	Dell Global Product Compliance and Environmental Affairs		

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. 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.

VI. Product Dimensions and Weight

Depth, mm/cm	Width, mm/cm	Height, mm/cm	Weight, kg
677.8 mm Ear to PSU surface wall	482.0 mm (with rack latched)	42.8 mm	18.62 Kg (4 x 3.5" inch)
691.07 mm Ear to butterfly L bracket housing	434.0 mm (without rack latched)		

VII. Product Energy Performance Data

ErP Lot 9 information is in Appendices A.

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](#)

VIII. 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 ¹ are BFR/PVC free	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Marking of plastics parts is in accordance with ISO 11469 (see below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Printed circuit boards (without components) >0.5g are BFR PVC free ¹	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Insulation materials of external electrical cables are PVC free	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Product is BFR/PVC Free (Accessories & Options may not be BFR/PVC-Free)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Postconsumer recycled Plastics (ITE-Derived) ¹ material content is used in the product	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA 24.2% PCR (Post Consumer Recycled) material in total plastic of product



If yes, indicate the percentage of the postconsumer recycled material per total plastic weight of the product ¹	
Biobased Plastic material ² content is used in the product. If yes, either indicate the percentage of the biobased plastic material per total plastic weight of the product Or	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA _____% biobased plastic material in total plastic of product

Flame Retardants Used in Motherboard

Part	List the Flame Retardants
PCB ³	Reactive phosphorus flame retardant
PCBA ⁴	Reactive phosphorus flame retardant

Flame Retardants Used in Mechanical Plastic Parts

The 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
Cycloy RCY6214	>PC+ABS FR(40)<	FR(40)	Organ Phosphate	N/A
GE C6200	>PC+ABS FR(40)<	FR(40)	Organ Phosphate	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](#)

¹ This product contains x% post-consumer recycled plastic and/or closed loop recycled plastics (ITE-derived)*
 *(Measured as a percentage of total amount of plastic (by weight) in the product as per guidance in TCO standard as applies to plastic parts.)

² 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

³ A PCB is a blank circuit board with no electronic components attached

⁴ PCBA is a completed assembly that contains all of the components required for the board to function as needed for the desired application



IX. 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	4940	Recycled Content	Min 35%	Min 35%	Min 35%
LDPE (including EPE Foam)	720	Recycled Content	0-80%	0-80%	0%

X. 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(Maxell)	Lithium Metal	0.003	3V 220mAh
PERC11 Battery	Lithium Ion	0.023	3.7V 2.66Wh
H745 Battery	Lithium Ion	0.022	3.7V 1.85Wh

XI. 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](#).

XII. 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.



XIII. 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 \(delltechnologies.com\)](https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-products-and-services/product-carbon-footprints.htm)
- **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 9 Servers and Data Storage Products: Information for end-users

The EU Commission Regulation (EU) 2019/424 (ErP Lot 9) ANNEX II Section 3.0 defines the information requirements to be provided by Manufacturers. This information is documented below or via a link is provided to a free access website where the information is maintained. A reference column is included to align the information with the format in the annex of the regulation. Where the information has already been recorded in the body of the Product Compliance Datasheet a note is made to avoid duplication.

For any follow up a request should be sent to: <http://support.dellproductcompliance.com>

Server Information Section:

Annex II Sect 3.0	Reporting Requirement	Link to Firmware / Security Updates
	Latest available version of firmware updates is available on the Product Page for the Marketing Model of the Server Solution	https://www.dell.com/support
	Latest available version of firmware updates is available on the Product Page for the Marketing Model of the Server Solution	https://www.dell.com/support/security/

High End Configuration:

Annex II Sect 3.1	Reporting Requirement	Information Requirements / link to free access website
a.	product type	reference product compliance datasheet r
b.	manufacturer's name, registered trade name and registered trade address at which they can be contacted;	reference product compliance datasheet
c.	product model number, and if applicable the low-end performance configuration and the high-end performance configuration model numbers;	reference product compliance datasheet
d.	year of manufacture;	2022/11/14
e.	PSU efficiency at 10 % (if applicable), 20 %, 50 % and 100 % of rated output power,	reference ErP Lot 9 power supply table
f.	power factor at 50 % of the rated load level, with the exception of direct current servers, rounded to three decimal places	reference ErP Lot 9 power supply table
g.	PSU rated power output (Watts), rounded to the nearest integer	reference ErP Lot 9 power supply table
h.	idle state power, expressed in Watts (rounded to the first decimal place)	182.4 W
i.	product model number, and if applicable the low-end performance configuration and the high-end performance configuration model numbers;	1 additional 1100W PSU, 3.5" HDDx2, additional 508GB memory, Quad port 1G and Dual port 10G NIC card
j.	maximum power, expressed in Watts (rounded to the first decimal place);	765.1 W
k.	declared operating condition class,	Operating condition class A2 [reference user manual in documentation tab on https://www.dell.com/support]
l.	idle state power (Watts) at the higher boundary temperature of the declared operating condition class,	197.7 W
m.	the active state efficiency and the performance in active state of the server;	Efficiency=44.4 ; Performance =24.1
n.	secure data deletion	https://www.dell.com/support/manuals/idrac
o.	list recommended combinations with compatible chassis	None
p.	if a product model is part of a server product family, a list of all model configurations that are represented by the model shall be supplied.	All available configurations can be selected on https://www.dell.com for a particular product model



Low End Configuration:

Annex II Sect 3.1	Reporting Requirement	Information Requirement / link to free access website
e.	PSU efficiency at 10 % (if applicable), 20 %, 50 % and 100 % of rated output power,	reference ErP Lot 9 server power supply table
f.	power factor at 50 % of the rated load level, with the exception of direct current servers, rounded to three decimal places	reference ErP Lot 9 server power supply table
g.	PSU rated power output (Watts), rounded to the nearest integer	reference ErP Lot 9 server power supply table
h.	idle state power, expressed in Watts (rounded to the first decimal place)	138 W
i.	list of all components for additional idle power allowances, if any (additional PSU, HDDs or SSDs, additional memory, additional buffered DDR channels, additional I/O devices);	1 additional 1100W PSU, 3.5" HDDx2, additional 60GB memory,
j.	maximum power, expressed in Watts (rounded to the first decimal place);	342.1 W
k.	declared operating condition class,	Operating condition class A2 [reference user manual in documentation tab on https://www.dell.com/support]
l.	idle state power (Watts) at the higher boundary temperature of the declared operating condition class,	147.0 W
m.	the active state efficiency and the performance in active state of the server;	Efficiency=24.6 ; Performance = 6.6

ErP Lot 9 Server Power Supply Table (applicable for high end and low-end configurations)	
Power Supply Model Number	Link to manufacturer's efficiency report (List of 80 PLUS Certified Power Supplies)
L700E-S1	https://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=26&type=1
D700E-S1	
D1100E-S6	
L1100E-S2	
D1800E-S0	
L1800E-S0	

Annex II Sect 3.3	Reporting Requirement	Information Requirement / link to free access website
h.	indicative weight range of the following CRMs: (a) Cobalt in the batteries. (b) Neodymium in the HDDs	Contact: http://support.dellproductcompliance.com
i.	instructions on the disassembly operations;	reference user manual in documentation tab on https://www.dell.com/support



