Product Compliance Datasheet

MARKETING NAME……: PowerEdge C6420

REGULATORY MODEL…..…: E43S

REGULATORY TYPE……..…: E43S001

EMC EMISSIONS CLASS…...: A

EFFECTIVE DATE……..…...: April 7, 2022

Table of contents

I. Regulatory Model Reference Information 2
II. Statement of Compliance 2
III. Global Environmental Information 3
IV. Declaration of Similarity 3
Object of the Declaration 3
V. Power Cords and User Documentation 4
VI. Trade (Import/Export) Compliance Data 4
VII. Product Dimensions and Weight 4
VIII. Performance Data 4
IX. Product Materials Information 4
X. Packaging 5
XI. Batteries 6
XII. Design for Environment 6
XIII. Recycling / End-of-Life Service Information 6
XIV. Helpful Links 7
Appendix A: ErP Lot 9 Servers and Data Storage Products: Information for end-users 8

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/hc/en-us/requests/new .

Regulatory Model to Marketing Name Reference	
Platform or Appliance Type	Multi-node Server
Regulatory Model Number	E43S
System Trade Name / Trademark	DELL EMC or DELL
System Marketing Name(s) that incorporate this Regulatory Model	PowerEdge C6420

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 http://www.dell.com/regulatory_compliance. 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)	*3.0*
China	CEC	Yes
Varies by Country See EPEAT.net	EPEAT (Configuration Dependent)	Refer to EPEAT.net for specific registration levels and countries

IV. Declaration of Similarity

Object of the Declaration	
Product Type	Multi-node Server
Regulatory Model Number	E43S
Regulatory Type Number	E43S001
Trade Name/ Trademark	DELL EMC or DELL
Marketing Name(s)	PowerEdge C6420

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.

Date of Issue	April 7, 2022	Signature on behalf of Dell Inc.	Dell Inc. Dell Global Product Compliance and Environmental Affairs
Title	Dell Global Product Compliance and Environmental Affairs		

V. 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.

VI. 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.

VII. Product Dimensions and Weight

Depth, mm	Width, mm	Height, mm	Weight, kg
804.55	482.6	86.8	43.62 Kg max. (depending upon installed options)

VIII. Performance Data

ErP Lot 9 information is in Appendices A 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

IX. Product Materials Information

Information on Dell's material use is available here.
Dell's Restricted Material for Use guidance document is available at www.dell.com/restrictedsubstanceslist.

- The case material is _metal___
- This product contains 35% 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 EPEAT standard as applies to plastics parts)

Mechanical plastic parts[1] > 25 g are BFR/PVC free	☒ Yes ☐ No ☐ NA
Marking of plastics parts greater than 25 grams is in accordance with ISO 11469 (see below)	☒ Yes ☐ No ☐ NA
Printed circuit boards (without components) >25g are BFR PVC free [2]	☐ Yes ☒ No ☐ NA
Insulation materials of external electrical cables are PVC free	☐ Yes ☒ No ☐ NA
Insulation materials of internal electrical cables are PVC free	☐ Yes ☒ No ☐ NA
Product is BFR/PVC Free (Accessories & Options may not be BFR/PVC-Free, refer to spec ENV0199)	☐ Yes ☒ No

Flame Retardants Used in Motherboard

Part	Flame Retardant
Motherboard	SPB-100

Flame Retardants Used in Mechanical Plastic Parts > 25 grams

Resin Material Name	Plastic Part Marking per ISO 11469:2016	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/ABS,SABIC RCY6214	>PC+ABS FR(40)<	FR(40)	Organic Phosphorus	N/A

Mercury Information

Number of bulbs	Average per bulb
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

X. 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.

[1] Mechanical plastic part: plastic parts that do not internally carry an electrical signal such as housings, brackets, bezels, latches, etc. that form the basic structure of the product and/or have mechanical functions. Plastic parts such as fans, connectors, printer fuser assemblies, etc. are not considered "mechanical plastic parts" in the context of this specification. Plastics parts do not contain more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride (Per Dell Spec ENV0424)

[2] Dell will adopt the BFR/CFR/PVC-free definition as set forth in the "iNEMI Position Statement on the Definition of 'Low-Halogen' Electronics (BFR/CFR/PVC-Free)." Plastic parts contain <1000 ppm (0.1 percent) of bromine (if the Br source is from BFRs) and <1000 ppm (0.1 percent) of chlorine if the Cl source is from CFRs, PVC, or PVC copolymers. All printed circuit board (PCB) and substrate laminates contain bromine/chlorine totaling less than 1,500 ppm (0.15 percent), with maximum chlorine of 900 ppm (0.09 percent) and maximum bromine of 900 ppm (0.09 percent)

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	3190	Recycled Content	Min 35%	Min 35%	Min 35%
LDPE (Including EPE Foam)	940	Recycled Content	0-80%	0-80%	0%
Other, please specify: WOOD	13250				

XI. 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
NVDIMM Battery (optional)	Lithium Ion	0.284	9.8Vdc, 20Wh
PERC with Battery Pack (optional)	Lithium Ion	0.016	3.7Vdc, 1.8Wh

XII. Design for Environment

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. For more information on Dell's Environmental product attributes please visit https://www.dell.com/learn/is/en/iscorp1/dell-environment-greener-products

XIII. 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 www.dell.com/recyclingworldwide and select the relevant country.

XIV. 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**
  http://i.dell.com/sites/content/corporate/corp-comm/en/Documents/dell-iso14001-worldwide.pdf
- **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://support.dellproductcompliance.com/hc/en-us/articles/360036876153-Materials-Restricted-Material-Compliance
- **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;	July 11, 2017
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)	92.1 W
i.	product model number, and if applicable the low-end performance configuration and the high-end performance configuration model numbers;	E43S
j.	maximum power, expressed in Watts (rounded to the first decimal place);	669.5W
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,	122.7 W
m.	the active state efficiency and the performance in active state of the server;	29.259
n.	secure data deletion	https://www.dell.com/support/manuals/idrac
o.	list recommended combinations with compatible chassis	Applies to blade servers only
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)	77.8 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);	One additional 1600 W PSU, two 2.5" HDD, additional 92 GB memory, one quad-port 1Gx2 and 10Gx2 NIC card
j.	maximum power, expressed in Watts (rounded to the first decimal place);	204.9 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,	97.7 W
m.	the active state efficiency and the performance in active state of the server;	15.466

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)**
D1600E-S0	https://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=26&type=1
D2000E-S0	
Z2000E-S1	
D2400E-S0	
A2400E-S0	

Required to be completed for Server and Storage

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