




Annex B2 - Product environmental attributes Computers and computer monitors

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Logo 
Company name *	Lenovo	
Contact information * e-mail address	Lenovo Global Environmental Affairs Alvin L Carter alcarter@lenovo.com	
Internet site *	https://www.lenovo.com/us/en/sustainability-resources/	
Additional information	The latest version of this document can be found at: http://www.lenovo.com/ecodeclaration	

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	Notebook Computer
Commercial name *	Lenovo 300e Yoga Chromebook Gen 4
Model number *	82W2,82W3
Issue date *	2023-01-03
Intended market *	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other
Additional information	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2


Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed


P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products.

Model number *	82W2,82W3	Logo	
Issue date *	2023-01-03		


Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.5*	When internal batteries of a notebook computer cannot be "accessed and replaced by a nonprofessional user", the related text is present and legible on the external packaging (see legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3	Conformity verification & Eco design (ErP)			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): https://www.lenovo.com/us/en/compliance/eu-doc for EU ; https://www.lenovo.com/us/en/compliance/uk-doc for UK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with the applicable Eco design requirements for energy-related products, (see legal reference). Required information is; <input checked="" type="checkbox"/> given in item P15 or added to this document, <input checked="" type="checkbox"/> available at (add URL): http://www.lenovo.com/ecodeclaration	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (https://lenovo.com/recycling).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	82W2,82W3	Logo	
Issue date *	2023-01-03		

Product environmental attributes - Market requirements (See General NOTE GN below)			
- Environmental conscious design			
Requirement met			
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No n.a.
P7 Design			
Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.9	Spare parts are available after end of production for: 5 years		<input type="checkbox"/>
P7.10	Service is available after end of production for: 5 years		<input type="checkbox"/>
Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: PC/ABS Material type: Material type:		
P7.12	Insulation materials of external electrical cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.13	Insulation materials of internal electrical cables are PVC free.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.14	External plastic casing/cover parts > 25 g contain no 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 or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all <input type="checkbox"/> PCBs > 25 g <input checked="" type="checkbox"/> are low halogen as defined in IEC 61249-2-21.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according to ISO 1043-4: Marking: FR(40)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) <input type="checkbox"/> TBBPA (reactive) <input type="checkbox"/> (See NOTE B3), Other; chemical name: Bisphenol A diphosphate , CAS #: 181028-79-5 Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40)	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; and Hazard statements: The source(s) for these classifications is/are found at (add URL(s)): , (See NOTE B5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.


Model number *	82W2,82W3	Logo	
Issue date *	2023-01-03		

Product environmental attributes - Market requirements (continued)					Requirement met		
Item					Yes	No	n.a.
Material and substance requirements (continued)							
P7.20*	Postconsumer recycled plastic material content is used in the product (See NOTE B6):				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If YES; at least one of the two alternatives below shall be answered;						
	a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is 9.36%.						
	or						
	b) The weight of recycled material is 50.6 g.						
P7.21*	Biobased plastic material content is used in the product (See NOTE B7):				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	If YES; at least one of the two alternatives below shall be answered;						
	a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %.						
	or						
	b) The weight of the biobased plastic material is g.						
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp.				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg						
P7.23*	If product includes an integral display, the total mercury content in the integrated display: 0.0 mg				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P8 Batteries							
P8.1*	Battery chemical composition: Lithium ion						<input type="checkbox"/>
P9 Energy consumption (See NOTE B8)							
P9.1	For the product the following power levels or energy consumptions are reported:						
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *	<input type="checkbox"/>		
Peak (On-Max)	65 W	65 W	65 W	Full Load			
Device Category 2							
Short Idle State – WOL Enabled (P _{short_idle})	2.49 W	2.52 W	2.58 W	ENERGY STAR Computers V8.0			
Long Idle State – WOL Enabled (P _{long_idle})	1.01 W	1.02 W	1.08 W	ENERGY STAR Computers V8.0			
Sleep (S3) – WOL Disabled (P _{Sleep})	0.36 W	0.37 W	0.42 W	ENERGY STAR Computers V8.0			
Off Mode (S5) – WOL Disabled (P _{off})	0.17 W	0.17 W	0.22 W	ENERGY STAR Computers V8.0			
PTEC *	W	W	W		<input checked="" type="checkbox"/>		
Typical Energy Consumption							
ETEC *	8.90 kWh/year	9.02 kWh/year	9.50 kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.45 + P _{sleep} x 0.05 + P _{long_idle} x 0.15+ P _{short_idle} x 0.35)	<input type="checkbox"/>		
Annual Energy Consumption							
External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: VI				International Efficiency Marking Protocol (IEMP) for External Power Supplies	<input type="checkbox"/>		
Display resolution *: 1.049 megapixels				1366*768	<input type="checkbox"/>		
Default time to enter energy save mode: 7 minutes				ENERGY STAR Computers V8.0	<input type="checkbox"/>		
P9.2*	Information about the energy save function is provided with the product.				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P9.3	Energy efficiency class (monitors only):						<input checked="" type="checkbox"/>

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>.

Model number *	82W2,82W3	Logo	
Issue date *	2023-01-03		

Product environmental attributes - Market requirements (continued)				Requirement met		
Item				Yes	No	n.a.
P10 Emissions						
Noise emission – Declared according to ISO 9296 (See NOTE B9)						
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,C}$ (B)			
	Idle	* <i>Idle Mode</i>	* 2.5		<input type="checkbox"/>	
	Operation	* <i>Operating (CPU)</i>	* 2.5		<input type="checkbox"/>	
	Other Mode	Declared A-weighted sound pressure level (dB)		NA (operator position desktop – idle)		
	Other mode	Declared A-weighted sound pressure level (dB) $L_{p,Am}$		NA (operator position desktop – operating-HDD/SSD) NA (operator position desktop – operating-CPU)		
	Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input checked="" type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74)					
Electromagnetic emissions						
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s): <i>MPR-II(3 pin AC adapter only)</i>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12 Ergonomics for computing products						
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13 Packaging and documentation						
P13.1*	Product packaging material type(s): <i>Cardboard</i> weight (kg): 0.255 Product packaging material type(s): <i>Paper</i> weight (kg): 0.02 Product packaging material type(s): <i>LDPE</i> weight (kg): 0.01 Product packaging material type(s): <i>EPE</i> weight (kg): 0.048					
P13.2*	Product plastic primary packaging is free from PVC.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: 80 %					<input type="checkbox"/>
P13.4*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> , Paper <input checked="" type="checkbox"/> , Other <input type="checkbox"/>					<input type="checkbox"/>
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify: Totally chlorine-free Elemental chlorine-free Processed chlorine-free			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P14 Voluntary programs						
P14.1	The product meets the requirements of the following voluntary program(s): ENERGY STAR® Criteria version: V8 Date: 2022/12/5 Product category: 2 Eco-label: <i>EPEAT</i> Criteria version: IEEE 1680.1-2018 Date: 2023/1/13 Product category: Notebook Eco-label: <i>TCO</i> Criteria version: 9.0 Date: 2023/1/13 Product category: Notebook					
P15 Additional information (See NOTE B10)						
P9	Energy consumption of computer products; description of the tested product configuration:					

NOTE B9 A Guidance document on Acoustic Noise is available;
see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>.

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive)* * Specific exemptions apply for certain products and applications.	P1.1, P3.1
Regulation (EC) 1907/2006 (REACH Regulation), annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2006/66/EC (Battery and accumulators Directive), as amended.* * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2.3, P8.1
Directive 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power demand and average active efficiency of external power supplies	P3.1, P3.2, P9.1
COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	P2.4, P2.5, P3.1, P3.2, P7.23, P9.1
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive) Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register. Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.	P6.1

Lenovo ErP Lot26 Information Sheet

- Network Equipment -


As required by_

- Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off-mode electric power consumption of electrical and electronic household equipment (ErP Lot 6)
- Commission Regulation (EU) No 801/2013 of 22 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for (ErP Lot 26).

Products scope of this sheet:

Notebook/Tablet Computer < 6 W Idle

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	<i>Lenovo 300e Yoga Chromebook Gen 4</i>	
Model Number	<i>82W2,82W3</i>	
Product Type	<i>Notebook Computer with Idle Power < 6 W</i>	
Issue Date	<i>2023-01-03</i>	
Additional information		

P7.1.1 Product environmental attributes

(1)	year of manufacture:		<i>2023</i>
(2)	Network Standby Classification	<i>LoNA Equipment</i>	
	Off Mode Power (Watts)	<i>0.19 Watts</i>	
	Standby Mode	<i>Watts</i> <input checked="" type="checkbox"/> Mode Not Applicable <i>minutes Default Delay Time</i>	
	Description of how to enable Network Standby Mode	<i>Network Standby Mode is enabled at Shipment</i>	
	Description of how to manually enter Network Standby Mode	<i>1) Press the Power Button once</i> <i>2) Click on the Power Button and choose Sleep</i>	
	Default Delay time to Network Standby Mode	<i>7.5 minutes</i>	
	Reactivation Function from Network Standby Mode	<i>Open Notebook, Press Keyboard or power button</i>	

(3)

Network Port	Wired Ethernet	Wireless Ethernet	USB-A	USB-C	HDMI	BlueTooth	Other: <i>USB-A</i>
Present in Product	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Activated at Shipment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Active in Network Standby Mode	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location of Network Port	<i>N/A</i>	<i>N/A</i>	<i>Left</i>	<i>Left</i>	<i>Right</i>	<i>N/A</i>	<i>Right</i>
Network Port Maximum Performance	GB/s	<i>0.15GB/s</i>	GB/s	GB/s	GB/s	GB/s	GB/s
Network Protocol		<i>Wi-Fi 6; 802.11ax</i>	<i>USB 3.2</i>			<i>BT5.2</i>	<i>USB 3.2</i>
Network Standby Mode Power	Watts	<i>0.39Watts</i>	Watts	Watts	Watts	Watts	Watts
Network Standby Power – All Active Connections	<i>0.39Watts</i>						

Additional Information

Instructions on connecting to and disconnecting from wireless networks is included in the User Manual

(4)

ambient temperature,	<i>25.3</i> degree Celsius
test voltage in V and frequency in Hz,	<i>230 V / 50 Hz</i>
total harmonic distortion of the electricity supply system,	<i>0.36%</i>
information and documentation on the instrumentation, set-up and circuits used for electrical testing	<i>Power Meter: HITESTER HIOKI 3332; AC Source: ALLPOWER APF-500W</i>

(3)

External power supply efficiency (if applicable)*:

Model	Output Voltage	Output Current	Output Power	Average Active Efficiency	10% Load Efficiency	No Load Power
<i>Delta</i>	<i>20 V</i>	<i>2.25 A</i>	<i>45 W</i>	<i>90%</i>	<i>88%</i>	<i>0.07 W</i>
<i>Chicony</i>	<i>20 V</i>	<i>2.25 A</i>	<i>45 W</i>	<i>89%</i>	<i>88%</i>	<i>0.05 W</i>
<i>Liteon</i>	<i>20 V</i>	<i>2.25 A</i>	<i>45 W</i>	<i>90%</i>	<i>88%</i>	<i>0.07 W</i>
<i>Acbel</i>	<i>20 V</i>	<i>2.25 A</i>	<i>45 W</i>	<i>81%</i>	<i>81%</i>	<i>0.06 W</i>
<i>Delta</i>	<i>20 V</i>	<i>3.25 A</i>	<i>65 W</i>	<i>92%</i>	<i>91%</i>	<i>0.06 W</i>
<i>Chicony</i>	<i>20 V</i>	<i>3.25 A</i>	<i>65 W</i>	<i>91%</i>	<i>89%</i>	<i>0.07 W</i>
<i>Liteon</i>	<i>20 V</i>	<i>3.25 A</i>	<i>65 W</i>	<i>90%</i>	<i>90%</i>	<i>0.08 W</i>
<i>Acbel</i>	<i>20 V</i>	<i>3.25 A</i>	<i>65 W</i>	<i>82%</i>	<i>81%</i>	<i>0.06 W</i>

*Values are tested at 230V / 50Hz

(4)

Measurement methodology used to determine information mentioned in points (5) – external PSU efficiency:

EN 50563:2011/A1:2013

Additional information