



## Technical Documentation for Ukraine Technical Regulation on Ecodesign Requirements for Computers and Computer Servers, Resolution No. 737

7/22/2022

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<b>Product Information</b>			
<b>Machine Type(s)</b>	<b>Model(s)</b>	<b>Part Number</b>	<b>Product Type</b>
9043	MRX	-	Computer server

Manufacturer's name, registered trade name and registered trade address:

**IBM**  
Marca Registrada  
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International Business Machines Corporation  
New Orchard Road Armonk, New York 10504

Year of manufacture

**2021**

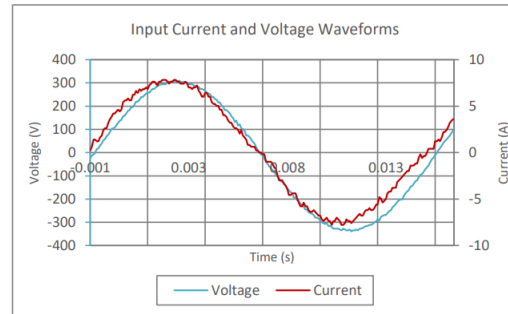
Noise levels (declared A-weighted sound power level of the computer)

- Maximum configuration: Four processors, 2 TB DDIMM, high-powered PCIe cards	9.7	8.0
- Heavy workload - 25°C (77°F), 500 m (1640 ft) environment		
- Maximum configuration: Four processors, 2 TB DDIMM, high-powered PCIe cards	8.9	7.5
- Heavy workload - Acoustical front door <sup>9</sup> - 25°C (77°F), 500 m (1640 ft) environment		
- Maximum configuration: Four processors, 2 TB DDIMM, high-powered PCIe cards	9.7	9.7
- Heavy workload - 40°C (104°F), 3050 m (10000 ft) environment		



Internal/external power supply efficiency

<b>ID Number</b>	SO-1946
<b>Manufacturer</b>	IBM
<b>Model Number</b>	700-015218
<b>Serial Number</b>	11S00E5464YL30KY1750UM
<b>Year</b>	2021
<b>Type</b>	1U
<b>Test Date</b>	11/23/21



Input AC Current Waveform (ITHD = 4.69%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	10	Amps
Input Frequency	50/60	Hz
<b>Rated Output Power</b>	<b>2,300</b>	<b>Watts</b>

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

I <sub>RMS</sub>	PF	I <sub>THD</sub>	Load	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency
							12.3V	12Vsb		
1.11	0.96	7.33%	10%	Low	247	1.17	12.32/18.2	12.3/0.59	231	93.71%
2.13	0.99	2.93%	20%	Light	484	1.17	12.31/36.34	12.29/1.18	462	95.42%
5.28	0.99	4.69%	50%	Typical	1204	4.17	12.32/90.86	12.27/2.95	1156	96.01%
10.72	1.00	2.51%	100%	Full	2462	11.34	12.36/181.67	12.25/5.91	2317	94.14%

\* Fan power is not included in the efficiency calculations

Maximum power (watts)

**3693 watts**

Idle State power (watts)

**1935 watts**

Sleep mode power (watts)

**Not applicable for computer servers**

Off mode power (watts)

**97 watts**

Test parameters	Properties
Test voltage and frequency	230 V ac at 50 Hz or 60 Hz
Total harmonic distortion of the electricity supply system	The maximum harmonic content of the input voltage waveform is equal to or less than 2%. The qualification is compliant with EN 61000-3-2.
Information and documentation on the instrumentation setup and circuits that are used for electrical testing	SPEC SERT suite version 2.x. ECOVA Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies
Measurement methodology that is used to determine information in this document	SPEC SERT suite version 2.x. ECOVA Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies

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