

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

7/22/2022

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Product Information					
Machine Type(s)	Model(s)	Part Number	Product Type		
9105, 9786	22A, 22H	-	Computer server		

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



Marca Registrada (a) Registered Trademark of International Business Machines Corporation New Orchard Road Armonk, New York 10504

Year of manufacture **2022**

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

	Operating	Idle
 Typical configuration Typical workload 23°C (73.4°F), 500 m (1640 ft) environment 	7.4	6.9
 Typical configuration Typical workload 23°C (73.4°F), 500 m (1640 ft) environment Front acoustic door⁹ 	7.2	6.7
 High power PCIe adapter or adapters Typical workload 23°C (73.4°F), 500 m (1640 ft) environment 	7.9	7.9
 High power PCIe adapters or adapters Typical workload 23°C (73.4°F), 500 m (1640 ft) environment Front acoustic door⁹ 	7.6	7.6
 Typical configuration Typical workload 25°C (77°F), 500 m (1640 ft) environment 	7.4	7.4
 Typical configuration Typical workload 25°C (77°F), 500 m (1640 ft) environment Front acoustic door⁹ 	7.2	7.2



 High power PCIe adapter or adapters Typical workload 25°C (77°F), 500 m (1640 ft) environment 	8.4	8.4
 High power PCIe adapters Typical workload 23°C (73.4°F), 500 m (1640 ft) environment Front acoustic door⁹ 	8.2	8.2
 Typical configuration Typical workload 40°C (104°F), 3050 m (10000 ft) environment 	8.5	8.2
 Typical configuration Typical workload 40°C (104°F), 3050 m (10000 ft) environment Front acoustic door⁹ 	8.3	7.9
 High power PCIe adapter or adapters Typical workload 40°C (104°F), 3050 m (10000 ft) environment 	8.5	8.5
 High power PCIe adapter or adapters Typical workload 40°C (104°F), 3050 m (10000 ft) environment Front acoustic door⁹ 	8.3	8.3

Internal/external power supply efficiency

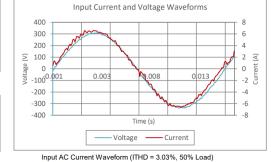
ID Number	SO-1948
Manufacturer	IBM
Model Number	700-015217
Serial Number	11S03FP379YL30KY1860Z8
Year	2021
Туре	1U
Test Date	11/23/21

Value

100-127/200-240

12/10

50/60



Input Frequency Rated Output Power 2,000 Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

Input Voltage

Input Current

		1	Load	Fraction	n Input External DC Terminal Voltage (V)/ DC Load Current (A)		Output	Efficiency		
RMS	FF	THD	Load	of Load	Watts	Fan (W)*	12.3V	12Vsb	Watts	Enciency
0.98	0.96	9.62%	10%	Low	216	1.17	12.32/15.72	12.3/0.58	201	93.02%
1.86	0.99	3.84%	20%	Light	422	1.17	12.31/31.38	12.29/1.17	401	95.05%
4.55	1.00	3.03%	50%	Typical	1045	1.56	12.3/78.66	12.24/2.92	1003	96.02%
9.21	1.00	4.19%	100%	Full	2108	20.99	12.27/157.32	12.17/5.84	2001	94.94%
* Fan po	* Fan power is not included in the efficiency calculations									

Units

Volts

Amps

Watts

Hz

Maximum power (watts) 1313 watts

Rated Specifications

Idle State power (watts) 953 watts

<u>Sleep mode power (watts)</u> Not applicable for computer servers

Off mode power (watts) 29 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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