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

6/16/2024

The following information is based on IBM's knowledge as of the date of this document, which may be based on its records and information from third parties. This documentation applies to finished products that IBM newly puts on the market in Ukraine and other jurisdictions which require this Technical Documentation as of the above date.

Product Information			
Machine Type(s)	**Model(s)**	**Part Number**	**Product Type**
9028	21B	-	Computer server

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

IBM®
Marca Registrada
® Registered Trademark of
International Business Machines Corporation
New Orchard Road Armonk, New York 10504

Year of manufacture
2024

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

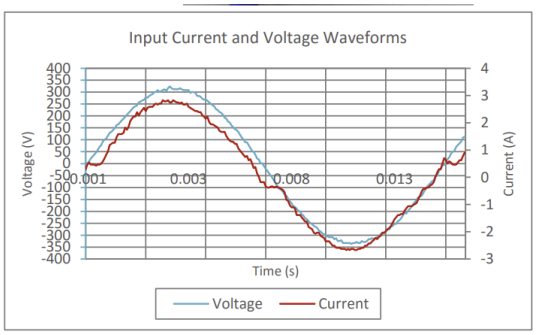
	Operating	Idling
– 1 × P10-ioSCM, 32 GB RAM, 4 × 0.8 TB U.2 NVMe, 2 × PCIe Adapter, AIX/Linux/IBM i – 1 LPAR, single system with or without RDX drive – 25°C (77°F) plus or minus 2°C (1.8°F), 500 m (1640 ft) environment	5.6	5.6
– 1 × P10-ioSCM, 32 GB RAM, 4 × 0.8 TB U.2 NVMe, 2 × PCIe Adapter, AIX/Linux/IBM i – 1 LPAR, single system with or without RDX drive – 25°C (77°F) plus or minus 2°C (1.8°F), 500 m (1640 ft) environment – Acoustical front door[9]	5.4	5.4
– 1 × P10-ioSCM, 32 GB RAM, 4 × 0.8 TB U.2 NVMe, 2 × PCIe Adapter, AIX/Linux/IBM i – 1 LPAR, single system with or without RDX drive – 40°C (104°F) plus or minus 2°C (1.8°F), 3050 m (10000 ft) environment	8.4	8.4
– 1 × P10-ioSCM, 32 GB RAM, 4 × 0.8 TB U.2 NVMe, 2 × PCIe Adapter, AIX/Linux/IBM i – 1 LPAR, single system with or without RDX drive – 40°C (104°F) plus or minus 2°C (1.8°F), 3050 m (10000 ft) environment – Acoustical front door[9]	8.0	8.0

Internal/external power supply efficiency

ID Number	SO-1296
Manufacturer	AcBel Polytech Inc.
Model Number	FSG032
Serial Number	N/A
Year	2017
Type	1U
Test Date	08/08/17

Rated Specifications	Value	Units
Input Voltage	**100-127 / 200-240**	Volts
Input Current	**10/5**	Amps
Input Frequency	**50-60**	Hz
Rated Output Power	**800**	**Watts**

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



Input AC Current Waveform (ITHD = 0.0744%, 50% Load)

I_{RMS}	PF	I_{THD}	Load	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency
							12V	12Vsb		
0.42	0.93	9.28%	10%	**Low**	89	12.60	12.21/6.48	12.21/0.2	82	**91.36%**
0.76	0.98	8.40%	20%	**Light**	172	12.60	12.21/12.97	12.2/0.4	163	**95.01%**
1.86	0.99	7.44%	50%	**Typical**	424	12.24	12.2/32.42	12.17/1	408	**96.13%**
3.75	1.00	5.01%	100%	**Full**	860	11.88	12.19/64.83	12.12/2	814	**94.70%**

* Fan power is not included in the efficiency calculations

Maximum power (watts)
358 watts

Idle State power (watts)
186.9 watts

Sleep mode power (watts)
Not applicable for computer servers

Off mode power (watts)
96.8 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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