



Technical Documentation for EU Regulation 2019/424 laying down ecodesign requirements for servers and data storage product pursuant to Directive 2009/125/EC

7/25/2025

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Product Information			
Machine Type(s)	Model(s)	Part Number	Product Type
9824, 9856	22A, 22H	-	Resilient server (2 socket) - Rack Drawer System

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



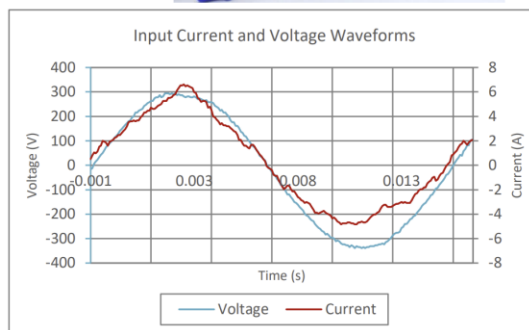
Year of manufacture - 2025

Power Supply Unit (PSU) efficiency, power factor and rated power output:

ID Number	SO-1799
Manufacturer	IBM CORPORATION
Model Number	AWF2DC1500W
Serial Number	02YJ111YS30NH09G076
Year	2020
Type	1U
Test Date	11/19/20

Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	9	Amps
Input Frequency	50/60	Hz
Rated Output Power	1,500	Watts

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



Input AC Current Waveform (ITHD = 4.91%, 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
							12.1V	3.3Vsb		
0.77	0.93	7.09%	10%	Low	165	19.08	12.28/12.37	3.33/0.2	153	92.28%
1.43	0.98	6.78%	20%	Light	321	19.08	12.26/24.75	3.31/0.4	305	94.96%
3.48	0.99	4.91%	50%	Typical	789	19.08	12.2/61.86	3.27/1	758	96.08%
7.23	0.95	4.48%	100%	Full	1582	18.60	12.1/123.71	3.19/2	1503	94.99%

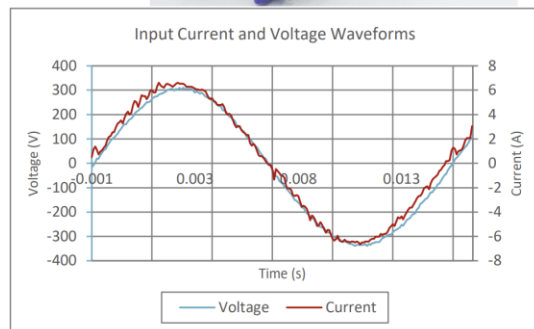
* Fan power is not included in the efficiency calculations



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

Rated Specifications	Value	Units
Input Voltage	100-127/200-240	Volts
Input Current	12/10	Amps
Input Frequency	50/60	Hz
Rated Output Power	2,000	Watts

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



Input AC Current Waveform (ITHD = 3.03%, 50% Load)

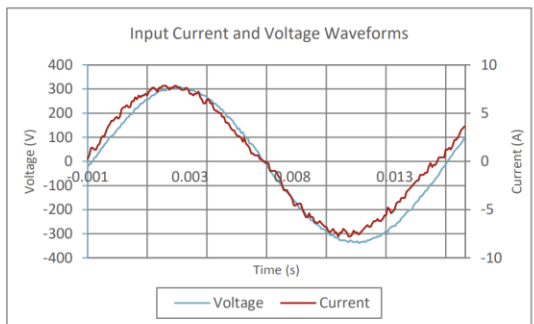
I _{RMS}	PF	I _{THD}	Load	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency
							12.3V	12Vsb		
0.98	0.96	9.62%	10%	Low	216	1.17	12.32/15.72	12.3/0.58	201	93.02%
1.86	0.99	3.84%	20%	Light	422	1.17	12.31/31.38	12.29/1.17	401	95.05%
4.55	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 power is not included in the efficiency calculations

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

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

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



Input AC Current Waveform (ITHD = 4.69%, 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
							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

Server product family configurations

	1-socket configuration		2-socket configuration		3-socket configuration		4-socket configuration	
	High-end	Low-end	High-end	Low-end	High-end	Low-end	High-end	Low-end
(a)	499.5	319.2	860.1	476.7	n/a	n/a	n/a	n/a
(b)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
(c)	999.2	431.2	1772.5	708.6	n/a	n/a	n/a	n/a
(d)	A3	A3	A3	A3	n/a	n/a	n/a	n/a
(e)	622.5	442.2	983.1	599.7	n/a	n/a	n/a	n/a
(f)	22.7, 22.1	9.4, 3.8	25.1, 41.2	11.9, 7.8	n/a	n/a	n/a	n/a



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)								
(g)	1	1	2	2	n/a	n/a	n/a	n/a
(h)	1	1	1	1	n/a	n/a	n/a	n/a
(i)	0	0	0	0	n/a	n/a	n/a	n/a
(j)	2	2	2	2	n/a	n/a	n/a	n/a
(k)	2044	252	4092	508	n/a	n/a	n/a	n/a
(l)	8	0	24	8	n/a	n/a	n/a	n/a
Installed I/O devices greater than two ports of ≥ 1 Gbit, onboard Ethernet								
(m)	1	1	1	1	n/a	n/a	n/a	n/a
(n)	0	0	0	0	n/a	n/a	n/a	n/a
(o)	0	0	0	0	n/a	n/a	n/a	n/a
(p)	0	0	0	0	n/a	n/a	n/a	n/a
(q)	0	0	0	0	n/a	n/a	n/a	n/a

- a* Measured idle state power, expressed in Watts and rounded to the first decimal place
- b* Calculated idle state power, expressed in Watts and rounded to the first decimal place
- c* Maximum power, expressed in Watts and rounded to the first decimal place
- d* Declared operating condition class
- e* Idle state power (Watts) at the higher boundary temperature of the declared operating condition class
- f* Active state efficiency and the performance in active state of the server
- g* CPU Performance: quantity
- h* Additional PSU installed explicitly for power redundancy: quantity
- i* HDD installed: quantity
- j* SSD installed: quantity
- k* Installed memory greater than 4 GB: quantity
- l* Installed buffered DDR channels greater than 8 channels: quantity
- m* ≥ 1 Gb/s : quantity
- n* > 1 Gb/s and < 10 Gb/s: quantity
- o* ≥ 10 Gb/s and < 25 Gb/s: quantity
- p* ≥ 25 Gb/s and < 50 Gb/s: quantity
- q* ≥ 50 Gb/s: quantity

Secure data functionality:

MTM 9824-22A

[Secure data deletion for devices by using stand-alone diagnostics - IBM Documentation](#)

MTM 9856-22H:

[Secure data deletion for devices by using stand-alone diagnostics - IBM Documentation](#)



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