



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	42A, 42H	-	Resilient server (2 socket) - Rack Drawer System

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

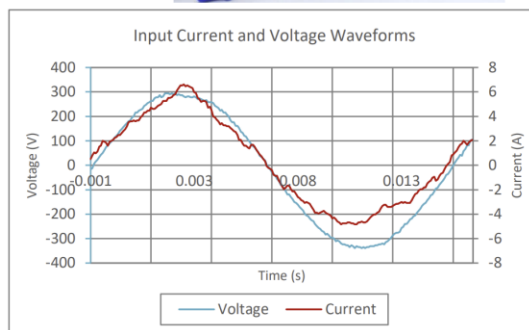
Year of manufacture - 2025

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.



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%

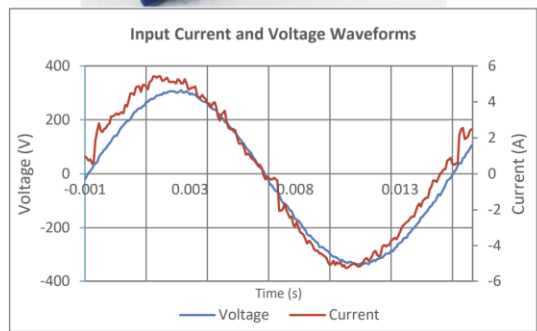
* Fan power is not included in the efficiency calculations



ID Number	SO-2020
Manufacturer	IBM
Model Number	AWF2DC1600W-E
Serial Number	02PX119YL30NH22R186
Year	2022
Type	1U
Test Date	04/18/22

Rated Specifications	Value	Units
Input Voltage	100-127/200-240	Volts
Input Current	12/9	Amps
Input Frequency	50/60	Hz
Rated Output Power	1,600	Watts

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



Input AC Current Waveform (ITHD = 5.052%, 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	12.3Vsb		
0.822	0.9224	21.08%	10%	Low	174.44	1.92	12.27/12.48	12.25/0.57	160.15	91.80%
1.531	0.9597	9.13%	20%	Light	338.06	1.80	12.26/24.95	12.21/1.15	319.96	94.65%
3.643	0.9900	5.05%	50%	Typical	829.42	1.92	12.22/62.39	12.15/2.86	797.46	96.15%
7.277	0.9969	4.13%	100%	Full	1668.89	8.52	12.16/124.77	12.05/5.73	1586.12	95.04%

* 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)	683.5	602.3	1018.3	820.6	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)	1603.4	1288.8	2501.5	1807.2	n/a	n/a	n/a	n/a
(d)	A3	A3	A3	A3	n/a	n/a	n/a	n/a
(e)	1095.5	1014.3	1430.3	1232.6	n/a	n/a	n/a	n/a
(f)	16.2, 23.3	11.3, 12.9	21.3, 45.6	16.1, 26.3	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)	2	2	2	2	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)	4092	508	8188	1020	n/a	n/a	n/a	n/a
(l)	8	24	8	24	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 < 25Gb/s: quantity*
- p >= 25 Gb/s and < 50Gb/s: quantity*
- q >= 50 Gb/s: quantity*

Secure data functionality:

MTM 9824-42A:

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

MTM 9856-42H:

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



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