



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

January 19, 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 the European Union and other jurisdictions which require this Technical Documentation as of the above date.

Product Information			
Machine Type(s)	Model(s)	Part Number	Product Type
4983	AH8,AFF,A9F	-	Online data storage

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



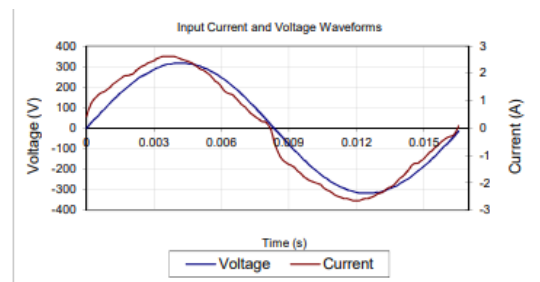
Year of manufacture  
2023

Power Supply Unit (PSU) efficiency and power factor:

Ecos ID #	SO-1003
Manufacturer	IBM
Model Number	TDPS-800FB A
Serial Number	CCQT1538000260
Year	2015
Type	1U
Test Date	9/28/15

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9.4	Amps
Input Frequency	47-63	Hz
<b>Rated Output Power</b>	<b>800</b>	<b>Watts</b>

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



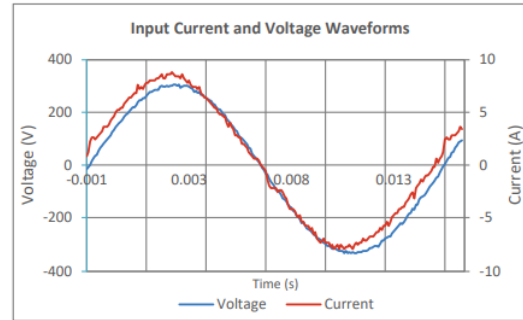
Input AC Current Waveform (ITHD = 6.86%, 50% Load)

I <sub>RMS A</sub>	PF	I <sub>THD</sub> (%)	Load (%)	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)			Output Watts	Efficiency %
						12V	5V	5Vsb		
0.62	0.65	11.85%	10%	92.45	40.43	12.01/5.21	5.01/3.34	5.01/0.21	80.34	86.91%
0.89	0.86	11.32%	20%	174.24	40.43	12/10.39	5/6.67	5/0.42	160.16	91.92%
1.91	0.97	6.86%	50%	424.30	40.43	11.99/26	4.99/16.64	4.99/1.05	399.93	94.26%
3.78	0.99	6.36%	100%	858.90	40.43	11.96/51.92	4.97/33.18	4.96/2.09	796.36	92.72%

\* Fan power is not included in the efficiency calculations



ID Number	SO-2135
Manufacturer	Delta Electronics, Inc.
Model Number	TDPS-2400PB A
Serial Number	XXXT2234000009
Year	2022
Type	1U
Test Date	10/11/22



Input AC Current Waveform (ITHD = 3.675%, 50% Load)

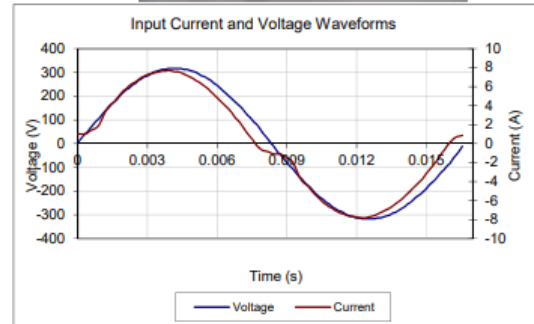
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	14.4	Amps
Input Frequency	50/60	Hz
Rated Output Power	2,400	Watts

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
							12V	5V	5Vsb		
1.360	0.8728	16.21%	10%	Low	272.98	106.42	12.1/16.53	5.01/8.28	5.03/0.23	242.55	88.85%
2.426	0.9343	8.79%	20%	Light	521.38	106.67	12.08/33.05	5.01/16.56	5.02/0.46	484.40	92.91%
5.584	0.9930	3.68%	50%	Typical	1275.38	106.75	12.02/82.52	5/41.37	5.01/1.15	1205.90	94.55%
11.349	0.9990	2.75%	100%	Full	2608.16	106.31	11.93/165.22	5/82.62	4.98/2.3	2395.76	91.86%

\* Fan power is not included in the efficiency calculations

Ecos ID #	SO-1054
Manufacturer	Delta Electronics (Thailand) PCL
Model Number	TDPS-2400AB A
Serial Number	CCTT15520121
Year	2016
Type	1U
Test Date	01/26/16



Input AC Current Waveform (ITHD = 10.62%, 50% Load)

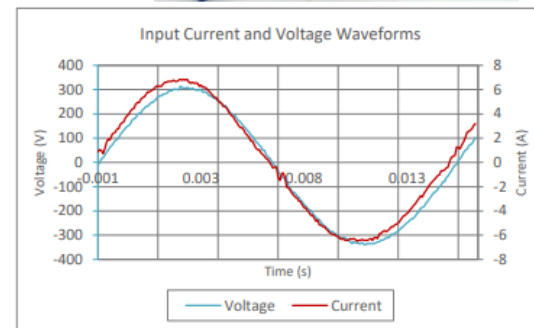
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	14.4	Amps
Input Frequency	50/60	Hz
Rated Output Power	2,400	Watts

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

I <sub>RMS</sub> A	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 %	
							12V	5Vsb	5Vsb			
1.36	0.89	22.00	10%	Low	278	17.67	12.08/16.5	5.02/4.13	5.03/0.23	5.02/4.14	242	87.10%
2.40	0.95	17.42	20%	Light	526	17.67	11.86/33.04	5.01/8.28	5.03/0.46	5.01/8.27	477	90.74%
5.67	0.99	10.62	50%	Typical	1289	17.67	12.01/82.64	5.01/20.7	5.01/1.15	5.01/20.68	1206	93.51%
11.53	1.00	4.07	100%	Full	2647	17.67	11.95/165.65	5.01/41.42	4.97/2.29	5.01/41.3	2405	90.87%

\* Fan power is not included in the efficiency calculations

ID Number	SO-1904
Manufacturer	Delta Electronics, Inc.
Model Number	TDPS-2000JB A
Serial Number	XXXT2122000001
Year	2021
Type	1U
Test Date	06/08/21



Input AC Current Waveform (ITHD = 4.24%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-127/200-240	Volts
Input Current	12.5/12.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	2,010	Watts

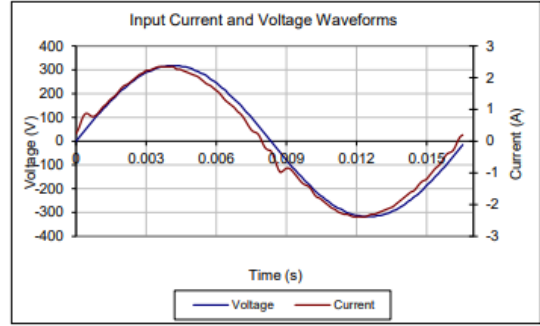
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

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
							12V	3.3Vsb		
1.05	0.91	9.94%	10%	Low	219	40.80	12.09/16.71	3.34/0.3	203	92.79%
1.92	0.96	6.41%	20%	Light	427	40.92	12.07/33.41	3.34/0.6	405	94.97%
4.61	0.99	4.24%	50%	Typical	1048	40.92	12.01/83.53	3.33/1.51	1009	96.20%
9.18	1.00	2.99%	100%	Full	2107	40.92	11.95/167.04	3.31/3.01	2007	95.26%

\* Fan power is not included in the efficiency calculations



<b>Ecos ID #</b>	SO-1161
<b>Manufacturer</b>	IBM
<b>Model Number</b>	SGE006-030G, 01AC454, R0850-F0080-01
<b>Serial Number</b>	N/A
<b>Year</b>	2016
<b>Type</b>	1U
<b>Test Date</b>	09/12/16



Input AC Current Waveform (ITHD = 4.68%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9.4	Amps
Input Frequency	50/60	Hz
<b>Rated Output Power</b>	<b>800</b>	<b>Watts</b>

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

$I_{RMS}$ A	PF	$I_{THD}$ (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)			Output Watts	Efficiency %
							12V	5V	5Vsb		
0.42	0.94	11.91	10%	Low	90	18.96	12/5.19	4.95/3.36	4.98/0.21	80	88.51%
0.76	0.99	11.09	20%	Light	174	18.84	12/10.4	4.95/6.72	4.97/0.42	160	92.15%
1.86	1.00	4.68	50%	Typical	425	18.84	11.99/26	4.94/16.81	4.96/1.05	400	94.16%
3.76	1.00	3.54	100%	Full	864	18.72	11.97/51.99	4.93/33.59	4.94/2.09	798	92.42%

\* Fan power is not included in the efficiency calculations

### Declared operating condition class A2

This product has been tested in order to verify that it will function within the boundaries of the declared operating condition class.

Secure data deletion functionality URL:

<https://www.ibm.com/docs/en/flashsystem-9x00/8.5.x?topic=overview-secure-data-deletion>

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