

Recyclability assessment *

Date: June 12, 2018

IBM Power Server 8286 41A Rack mount

Brand name =	IBM	Product Category =	IBM PELM equipment
Model name =	8286 41A	Product weight =	44.06 kg

Part/Sub-Assembly	Mass (g)	Qty	Mass(g)/System	Recyclability rate **
Frame Assembly	8890	1	8890	97%
Service cover assembly	3160	1	3160	97%
CDIMM (dual in-line memory module)	180	16	2880	97%
Planar Assembly	6360	1	6360	97%
Heatsink Assembly	680	2	1360	97%
Power Supply Assembly	1070	4	4280	97%
Direct access storage device (DASD) Backplane	1360	1	1360	97%
Solid State Drive 1.8"	90	8	720	97%
DASD_2.5"	360	20	7200	97%
SAS Redundant Array of Independent Disks (RAID) Card	550	2	1100	97%
Peripheral Component Interconnect (PCI) card	360	4	1440	97%
PCI card	730	4	2920	97%
Ethernet Card	140	1	140	97%
USB Card	140	1	140	97%
Fan Assembly	500	4	2000	97%
DVD Drive Assembly	110	1	110	97%
Sum***			44060	97%

IBM Power Server 8286 41A Tower

Brand name =	IBM	Product category =	IBM PELM equipment
Model name =	8286 41A	Product weight =	51.9 kg

Part/Sub-Assembly	Mass (g)	Qty	Mass(g)/System	Recyclability rate **
Frame Assembly	8890	1	8890	97%
CDIMM	180	8	1440	97%
Planar Assembly	6360	1	6360	97%
Heatsink Assembly	680	1	680	97%
Power Supply Assembly	1070	4	4280	97%
DASD Backplane	1360	1	1360	97%
SSD 1.8"	90	8	720	97%
DASD_2.5"	360	18	6480	97%
SAS RAID Card	550	2	1100	97%
PCI x16 Card	730	4	2920	97%
Ethernet Card	140	1	140	97%
USB Card	140	1	140	97%
Fan Asm	500	3	1500	97%
DVD Drive Asm	110	1	110	97%
Tower Service Cover	3810	1	3810	97%
Right Side Cover	4340	1	4340	97%
Handle Bracket	2860	1	2860	97%
Handle Covers	180	1	180	97%
Tip Plate Assembly	4570	1	4570	97%
Sum***			51900	97%

Recyclability rate: $R_{rcy} = \frac{\sum(m_{ij} \times RCR_{ij})}{m_{EEE}} \times 100\% = 97\%$

Symbols and definitions

m_{ij} = Mass of i^{th} part

RCR_{ij} = Recycling rate of the i^{th} part in the corresponding end-of-life treatment scenario

R_{rcy} = Recyclability rate

m_{EEE} = Total product mass

* This recyclability assessment is based on the format in the International Electrotechnical Commission (IEC) 62635 Standard Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment. Recyclability is defined by the standard to be "ability of waste product to be recycled, based on actual practices." The recyclability rate calculation equation is defined by this standard. Products were assessed based on the results of reuse, recycling and/or disposal at IBM's Product End-of-Life Management suppliers. The 2016 results for IBM product end-of-life management are attached to the right. The IBM and the Environment 2016 Annual report is located at <https://www.ibm.com/ibm/environment/annual/reporting.shtml>

** Recyclability rate projected for this product and parts based on the overall results of IBM's product end-of-life management for its supply chain.

*** This POWER server is unique in content based on customer ordering. The weight will vary based on content of the server. The bill of material provided here is an example for this product and that which is used for the Installation Planning manual.

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