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Power Supplies, Medical and Dental - Component

See General Information for Power Supplies, Medical and Dental - Component

XP POWER INC
SUITE 150
1241 E DYER RD
SANTA ANA, CA 92705 USA

E321744

	Rated Input			Max Output							
Model No.	Volts	Hz	SC	V	A	VA	OC	SP	EP	FC	GC
"Switching Power Supply".											
AFM120PS12C6, AFM120PS12 (b)[*r]											
	100-240ac	50-60	0	12.0dc	0.01-8.33	-	9	60601-1	20B	0	2
AFM120PS135C6, AFM120PS135 (b)[*r]											
	100-240ac	50-60	0	13.5dc	0.01-7.40	-	9	60601-1	20B	0	2
AFM120PS138C6, AFM120PS138 (b)[*r]											
	100-240ac	50-60	0	13.8dc	0.01-7.25	-	9	60601-1	20B	0	2
AFM120PS15C6, AFM120PS15 (b)[*r]											
	100-240ac	50-60	0	15.0dc	0.01-6.66	-	9	60601-1	20B	0	2
AFM120PS16C6, AFM120PS16 (b)[*r]											
	100-240ac	50-60	0	16.0dc	0.01-6.25	-	9	60601-1	20B	0	2
AFM120PS17C6, AFM120PS17 (b)[*r]											
	100-240ac	50-60	0	17.0dc	0.01-5.88	-	9	60601-1	20B	0	2
AFM120PS18C6, AFM120PS18 (b)[*r]											
	100-240ac	50-60	0	18.0dc	0.01-5.55	-	9	60601-1	20B	0	2
AFM120PS19C6, AFM120PS19 (b)[*r]											
	100-240ac	50-60	0	19.0dc	0.01-5.26	-	9	60601-1	20B	0	2
AFM120PS20C6, AFM120PS20 (b)[*r]											
	100-240ac	50-60	0	20.0dc	0.01-5.00	-	9	60601-1	20B	0	2
AFM120PS22C6, AFM120PS22 (b)[*r]											
	100-240ac	50-60	0	22.0dc	0.01-4.54	-	9	60601-1	20B	0	2
AFM120PS24C6, AFM120PS24 (b)[*r]											
	100-240ac	50-60	0	24.0dc	0.01-5.00	-	9	60601-1	20B	0	2
AFM120PS26C6, AFM120PS26 (b)[*r]											
	100-240ac	50-60	0	26.0dc	0.01-4.62	-	9	60601-1	20B	0	2
AFM120PS28C6, AFM120PS28 (b)[*r]											

PDM60US12											
	100-240ac	47-63	0	12	4.9	60	9	60601-1	20B	0	0
PDM60US15											
	100-240ac	47-63	0	15	4	60	9	60601-1	20B	0	0
PDM60US18											
	100-240ac	47-63	0	18	3.3	60	9	60601-1	20B	0	0
PDM60US24											
	100-240ac	47-63	0	24	2.3	60	9	60601-1	20B	0	0
PDM60US30											
	100-240ac	47-63	0	30	2	60	9	60601-1	20B	0	0
PDM60US36											
	100-240ac	47-63	0	36	1.5	60	9	60601-1	20B	0	0
PDM60US48											
	100-240ac	47-63	0	48	1.25	60	9	60601-1	20B	0	0

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Power Supplies, Medical and Dental - Component

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[Power Supplies - Component] Power Supplies, Medical and Dental - Component

See General Information for Power Supplies - Component

The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

USE

This category covers component power supplies intended for use in/with professional medical and dental equipment.

REBUILT PRODUCTS

This category also covers power supplies that are rebuilt by the original manufacturer or another party having the necessary facilities, technical knowledge and manufacturing skills. Rebuilt power supplies are rebuilt to the extent necessary by disassembly and reassembly using new or reconditioned parts. Rebuilt power supplies are subject to the same requirements as new power supplies.

CONDITIONS OF ACCEPTABILITY

Consideration is to be given to the Conditions of Acceptability specified in the individual Recognitions and/or Reports (available from the manufacturer) when these components are employed in the end-use equipment.

CODES

The following summarizes and defines codes shown in the individual Recognitions in addition to those indicated under Power Supplies (QQAQ2).

Supply Category (SC) — Code identifies the type of supply to which the component is intended to be connected.

SC Category	Code
Branch-circuit power	0
NEC Class 2	1
Isolated secondary circuit	4
Limited-energy isolated secondary circuit	5
Centralized DC	6

Maximum Voltage (Max V) — The maximum output voltage under any resistive loading condition is indicated in volts peak.

Maximum Amperes (Max A) — The maximum output current under any resistive loading condition is indicated in amperes rms.

Maximum Volt (Max VA) — The maximum output volt-amperes under any resistive loading condition is indicated in volt-amperes rms.

Output Category (OC) — Each output is identified to indicate the type of output. Multiple codes may be used to identify properties of the output.

Output Category	Code
NEC Class 1	0
NEC Class 2	1
Isolated secondary circuit	4
Isolated from primary by basic insulation (60601-1)	8
Isolated from primary by double insulation (60601-1)	9
Isolated from ground by basic insulation based on secondary voltage (60601-1)	10
Isolated from ground by double insulation based on secondary voltage (60601-1)	11
Isolated from ground by basic insulation based on mains voltage (60601-1)	12

Note: If no code appears for secondary circuit isolation from ground, ground isolation has not been investigated.
Note: For ANSI/AAMI ES60601-1, the MOPP and MOOP designations ("Means of Patient Protection" and "Means of Operator Protection," respectively) are detailed in the individual Reports.

Spacings (SP) — The standard used in judging spacings (or creepage and clearance distances) is indicated by the Standard No.

SP Categories	Code
UL 2601-1, "Medical Electrical Equipment, Part 1: General Requirements for Safety" (2nd ed.)	2601 or 2601-1
UL 60601-1, "Medical Electrical Equipment, Part 1: General Requirements for Safety" (1st ed.)	60601 or 60601-1
ANSI/AAMI ES60601-1:2005, "Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance" (3rd ed.)	ES60601-1

External Protection (EP) — Tests on the component were conducted with the primary protected by external overcurrent protection.

EP Categories	Code
Specified current rating, branch protection	@B
Specified current rating, time-delay fuse	@T
Specified current rating, not branch protection	@
(@) Indicates current rating of protection in amperes	

Field Connections (FC) — Code indicates whether supply and output connections have been investigated for field connections.

FC Categories	Code
Supply and output not investigated for FC	0
Supply not investigated for FC	1
Output not investigated for FC	2
Supply suitable for FC (+)	3
Output suitable for FC (+)	4
Supply and output suitable for FC (+)	5
Supply suitable for FC (++)	6
Output suitable for FC (++)	7
Supply and output suitable for FC (++)	8
(+) Employs pressure-wire terminals or terminal block suitable for field wiring	
(++) Employs a connector, or a cord terminating in a connector	

Grounding Connection (GC) — Units with functional grounding connections (no safety grounding connection) shall have dead metal parts bonded to the end-product grounding means.

GC Categories	Code
Only functional grounding provided	0
Provided with safety grounding connection	1
Double-insulated product	2

RELATED PRODUCTS

See Power Supplies, General Purpose (QQFU2).

ADDITIONAL INFORMATION

For additional information, see Power Supplies (QQAQ2).

REQUIREMENTS

The basic standard used to investigate products in this category is UL 60601-1, "Medical Electrical Equipment, Part 1: General Requirements for Safety" (1st ed.), or ANSI/AAMI ES60601-1:2005, "Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance" (3rd ed.).

Reference Material

Over time, there have been several standards used to help support end-use medical equipment certifications. These include UL 2601-1, UL 60601-1 and ANSI/AAMI ES60601-1:2005. Some of these standards have been or will be replaced as requirements continue to evolve to meet safety demands. However, there are still existent medical devices for which power supplies investigated to earlier versions of the power supply standard (s) are valid. Therefore, a need exists to differentiate the requirements to which individual power supplies have been subjected in order to ensure correct application to the end-use medical device. This has been done in the form of reference to specific medical device standard requirements, and is stated for each individual power supply covered under the column headed "SP."

The following paragraphs provide additional background on the standards referenced above.

UL 2601-1, "Medical Electrical Equipment, Part 1: General Requirements for Safety" (2nd ed.). UL 2601-1 (2nd ed.) is identical in content to UL 60601-1 (1st ed.). Both standards are harmonized with the 2nd edition of IEC 60601-1:1988, including amendments 1 and 2.

ANSI/AAMI ES60601-1:2005, "Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance" (3rd ed.). This standard is harmonized with the 3rd edition of IEC 60601-1:2005.

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Last Updated on 2010-09-13

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See General Information for Power Supplies, Medical and Dental Certified for Canada - Component

XP POWER LTD
401 COMMONWEALTH DR
HAW PAR TECHNOCENTRE
LOBBY B, #02-02
SINGAPORE, 149598 SINGAPORE

E321744

	Rated Input			Max Output							
Model No.	Volts	Hz	SC	V	A	VA	OC	SP	EP	FC	GC
"Switching Power Supply".											
AFM120PS12C6, AFM120PS12 (b)[*r]											
	100-240ac	50-60	0	12.0dc	0.01-8.33	-	9	60601-1	20B	0	2
AFM120PS135C6, AFM120PS135 (b)[*r]											
	100-240ac	50-60	0	13.5dc	0.01-7.40	-	9	60601-1	20B	0	2
AFM120PS138C6, AFM120PS138 (b)[*r]											
	100-240ac	50-60	0	13.8dc	0.01-7.25	-	9	60601-1	20B	0	2
AFM120PS15C6, AFM120PS15 (b)[*r]											
	100-240ac	50-60	0	15.0dc	0.01-6.66	-	9	60601-1	20B	0	2
AFM120PS16C6, AFM120PS16 (b)[*r]											
	100-240ac	50-60	0	16.0dc	0.01-6.25	-	9	60601-1	20B	0	2
AFM120PS17C6, AFM120PS17 (b)[*r]											
	100-240ac	50-60	0	17.0dc	0.01-5.88	-	9	60601-1	20B	0	2
AFM120PS18C6, AFM120PS18 (b)[*r]											
	100-240ac	50-60	0	18.0dc	0.01-5.55	-	9	60601-1	20B	0	2
AFM120PS19C6, AFM120PS19 (b)[*r]											
	100-240ac	50-60	0	19.0dc	0.01-5.26	-	9	60601-1	20B	0	2
AFM120PS20C6, AFM120PS20 (b)[*r]											
	100-240ac	50-60	0	20.0dc	0.01-5.00	-	9	60601-1	20B	0	2
AFM120PS22C6, AFM120PS22 (b)[*r]											
	100-240ac	50-60	0	22.0dc	0.01-4.54	-	9	60601-1	20B	0	2
AFM120PS24C6, AFM120PS24 (b)[*r]											
	100-240ac	50-60	0	24.0dc	0.01-5.00	-	9	60601-1	20B	0	2
AFM120PS26C6, AFM120PS26 (b)[*r]											
	100-240ac	50-60	0	26.0dc	0.01-4.62	-	9	60601-1	20B	0	2

PDM60US12										
	100-240ac	47-63	0	12	4.9	60	9	60601-1	20B	0	0
PDM60US15										
	100-240ac	47-63	0	15	4	60	9	60601-1	20B	0	0
PDM60US18										
	100-240ac	47-63	0	18	3.3	60	9	60601-1	20B	0	0
PDM60US24										
	100-240ac	47-63	0	24	2.3	60	9	60601-1	20B	0	0
PDM60US30										
	100-240ac	47-63	0	30	2	60	9	60601-1	20B	0	0
PDM60US36										
	100-240ac	47-63	0	36	1.5	60	9	60601-1	20B	0	0
PDM60US48										
	100-240ac	47-63	0	48	1.25	60	9	60601-1	20B	0	0

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See General Information for Power Supplies Certified for Canada - Component

The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

USE

This category covers component power supplies intended for use in/with professional medical and dental equipment.

REBUILT PRODUCTS

This category also covers power supplies that are rebuilt by the original manufacturer or another party having the necessary facilities, technical knowledge and manufacturing skills. Rebuilt power supplies are rebuilt to the extent necessary by disassembly and reassembly using new or reconditioned parts. Rebuilt power supplies are subject to the same requirements as new power supplies.

CONDITIONS OF ACCEPTABILITY

Consideration is to be given to the Conditions of Acceptability specified in the individual Recognitions and/or Reports (available from the manufacturer) when these components are employed in the end-use equipment.

CODES

The following summarizes and defines codes shown in the individual Recognitions in addition to those indicated under Power Supplies Certified for Canada (QQAQ8).

Supply Category (SC) — Code identifies the type of supply to which the component is intended to be connected.

SC Categories	Code
Branch-circuit power	0
CEC Class 2	1
Isolated secondary circuit	4
Limited-energy isolated secondary circuit	5
Centralized DC	6

Output Category (OC) — Each output is identified to indicate the type of output. Multiple codes may be used.

Output Category	Code
CEC Class 1	0
CEC Class 2	1
Isolated secondary circuit	4
Isolated from primary by basic insulation (CAN/CSA-C22.2 No. 601.1 or CAN/CSA-C22.2 No. 60601-1-2008)	8
Isolated from primary by double insulation (CAN/CSA-C22.2 No. 601.1 or CAN/CSA-C22.2 No. 60601-1-2008)	9
Isolated from ground by basic insulation based on secondary voltage (CAN/CSA-C22.2 No. 601.1 or CAN/CSA-C22.2 No. 60601-1-2008)	10
Isolated from ground by double insulation based on secondary voltage (CAN/CSA-C22.2 No. 601.1 or CAN/CSA-C22.2 No. 60601-1-2008)	11
Isolated from ground by basic insulation based on mains voltage (CAN/CSA-C22.2 No. 601.1 or CAN/CSA-C22.2 No. 60601-1-2008)	12
Note: If no code appears for secondary circuit isolation from ground, ground isolation has not been investigated.	

Note: For CAN/CSA-C22.2 No. 60601-1-2008, the MOPP and MOOP designations ("Means of Patient Protection" and "Means of Operator Protection," respectively) are detailed in the individual Reports.

ADDITIONAL INFORMATION

For additional information, see Power Supplies Certified for Canada (QQAQ8) and Power Supplies, General Purpose Certified for Canada (QQFU8).

REQUIREMENTS

The basic standard used to investigate products in this category is CAN/CSA-C22.2 No. 601.1, "Medical Electrical Equipment, Part 1: General Requirements for Safety," or CAN/CSA-C22.2 No. 60601-1-2008, "Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance."

UL MARKING

Components Recognized under UL's Component Recognition Program are identified by markings consisting of the Recognized company's identification and catalog, model, or other product designation. In addition, components produced under the UL Component Recognition Program will also bear the Recognized Component Mark for Canada .

For rebuilt products, the word "Rebuilt," "Remanufactured" or "Reconditioned" precedes the product name.

The Listing or Classification Mark of Underwriters Laboratories Inc. is not authorized for use on, or in connection with, Recognized Components. Only those components that actually bear the "Marking" should be considered as being covered under the Component Recognition Program.

* *

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Power Supplies, Information Technology Equipment Including Electrical Business Equipment

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Power Supplies, Information Technology Equipment Including Electrical Business Equipment

See General Information for Power Supplies, Information Technology Equipment Including Electrical Business Equipment

XP POWER INC **E317867**
SUITE 150
1241 E DYER RD
SANTA ANA, CA 92705 USA

Trademark and/or Tradename: XP

AC adapters, Model(s) AEB100PS12, AEB100PS125, AEB100PS15, AEB100PS24, AEB100PS48, AEB45US12, AEB45US15, AEB45US18, AEB45US19, AEB45US24, AEB45US48

AC adaptors, Model(s) AML180PS18C6zzzz (&), AML180PS18yyzzzz (&), AML180PS19C6zzzz (&), AML180PS19yyzzzz (&), AML180PS24C6zzzz (&), AML180PS24yyzzzz (&), AML180PS48C6zzzz (&), AML180PS48yyzzzz (&), VEH90PS12XXX (!), VEH90PS19XXX (!), VEH90PS24XXX (!)

Adapters, Model(s) AED or AEP followed by 06US068, AED or AEP followed by 06US065, AED06US06, AEP04US06, AED or AEP followed by 06US055, AED06US05, AEP04US05, AEP06US042

Adapters, Model(s) AED or AEP followed by 06US12, AED or AEP followed by 06US10, AED or AEP followed by 06US09, AED or AEP followed by 06US088, AED or AEP followed by 06US084, AED or AEP followed by 06US08, AED or AEP followed by 06US075, AED or AEP followed by 06US07

Adapters, Model(s) AED or AEP followed by 10US033, AED or AEP followed by 10US034, AED or AEP followed by 10US035, AED or AEP followed by 10US036, AED or AEP followed by 10US037, AED or AEP followed by 10US038, AED or AEP followed by 10US039, AED or AEP followed by 10US04

Adapters, Model(s) AED or AEP followed by 10US041, AED or AEP followed by 10US042, AED or AEP followed by 10US043, AED or AEP followed by 10US044, AED or AEP followed by 10US045, AED or AEP followed by 10US046, AED or AEP followed by 10US047, AED or AEP followed by 10US048

Adapters, Model(s) AED or AEP followed by 10US049, AED or AEP followed by 10US05, AED or AEP followed by 10US051, AED or AEP followed by 10US052, AED or AEP followed by 10US053, AED or AEP followed by 10US054, AED or AEP followed by 10US055, AED or AEP followed by 10US056

Adapters, Model(s) AED or AEP followed by 10US057, AED or AEP followed by 10US058, AED or AEP followed by 10US059, AED or AEP followed by 10US06, AED or AEP followed by 10US061, AED or AEP followed by 10US062, AED or AEP followed by 10US063

Adapters, Model(s) AED or AEP followed by 10US064, AED or AEP followed by 10US065, AED or AEP followed by 10US066, AED or AEP followed by 10US067, AED or AEP followed by 10US068, AED or AEP followed by 10US069, AED or AEP followed by 10US07, AED or AEP followed by 10US071

Adapters, Model(s) AED or AEP followed by 10US072, AED or AEP followed by 10US073, AED or AEP followed by 10US074, AED or AEP followed by 10US075, AED or AEP followed by 10US076, AED or AEP followed by 10US077, AED or AEP followed by 10US078

Adapters, Model(s) AED or AEP followed by 10US079, AED or AEP followed by 10US08, AED or AEP followed by 10US081, AED or AEP followed by 10US082, AED or AEP followed by 10US083, AED or AEP followed by 10US084, AED or AEP followed by 10US085, AED or AEP followed by 10US086

Adapters, Model(s) AED or AEP followed by 10US11, AED or AEP followed by 10US111, AED or AEP followed by 10US112, AED or AEP followed by 10US113, AED or AEP followed by 10US114, AED or AEP followed by 10US115

Adapters, Model(s) AED or AEP followed by 10US116, AED or AEP followed by 10US117, AED or AEP followed by 10US118, AED or AEP followed by 10US119, AED or AEP followed by 10US12, AED or AEP followed by 10US121, AED or AEP followed by 10US122

Adapters, Model(s) AED or AEP followed by 10US123, AED or AEP followed by 10US124, AED or AEP followed by 10US125, AED or AEP followed by 10US126, AED or AEP followed by 10US127, AED or AEP followed by 10US128, AED or AEP followed by 10US129, AED or AEP followed by 10US13

Adapters, Model(s) AED or AEP followed by 10US131, AED or AEP followed by 10US132, AED or AEP followed by 10US133, AED or AEP followed by 10US134, AED or AEP followed by 10US135, AED or AEP followed by 10US136

[j], PUP130-17-YYY-Z [j], PUP130-18-YYY-Z [j], PUP56-1X-YYY-Z (k), PUP60-10-1-YYY-Z (j), PUP60-10-YYY-Z (j), PUP60-11-YYY-Z (j), PUP80-12-YYY-Z [j], PUP80-13-1-YYY-Z [j], PUP80-13-YYY-Z [j], PUP80-14-YYY-Z [j], PUP80-16-YYY-Z [j], PUP80-17-YYY-Z [j], PUP80-18-YYY-Z [j]

Swiching power supply units, Model(s) AFM120PS22, AFM120PS22C6, AFM120PS24, AFM120PS24C6, AFM120PS26, AFM120PS26C6

Switch-mode brick style power supplies, Model(s) PDM60US12, PDM60US15, PDM60US18, PDM60US24, PDM60US30, PDM60US36, PDM60US48

Switching power adapters, Model(s) AEB70US12, AEB70US15, AEB70US16, AEB70US18, AEB70US19, AEB70US24, AEB70US48, AED100US12V1xy (d), AED100US12v2xy (d), AED100US12V3xy (d), AED100US12V4xy (d), AED100US12V5xy (d), AED100US12V6xy (d), AED100US12V7xy (d), AED100US12V8xy (d), AED100US12V9xy (d), AED100US12xy (d), AED100US13V1xy (d), AED100US13V2xy (d), AED100US13V3xy (d), AED100US13V4xy (d), AED100US13V5xy (d), AED100US13V6xy (d), AED100US13V7xy (d), AED100US13V8xy (d), AED100US13V9xy (d), AED100US13xy (d), AED100US14V1xy (d), AED100US14V2xy (d), AED100US14V3xy (d), AED100US14V4xy (d), AED100US14V5xy (d), AED100US14V6xy (d), AED100US14V7xy (d), AED100US14V8xy (d), AED100US14V9xy (d), AED100US14xy (d), AED100US15V1xy (d), AED100US15V2xy (d), AED100US15V3xy (d), AED100US15V4xy (d), AED100US15V5xy (d), AED100US15V6xy (d), AED100US15V7xy (d), AED100US15V8xy (d), AED100US15V9xy (d), AED100US15xy (d), AED100US16V1xy (d), AED100US16V2xy (d), AED100US16V3xy (d), AED100US16V4xy (d), AED100US16V5xy (d), AED100US16V6xy (d), AED100US16V7xy (d), AED100US16V8xy (d), AED100US16V9xy (d), AED100US16xy (d), AED100US17V1xy (d), AED100US17V2xy (d), AED100US17V3xy (d), AED100US17V4xy (d), AED100US17V5xy (d), AED100US17V6xy (d), AED100US17V7xy (d), AED100US17V8xy (d), AED100US17V9xy (d), AED100US17xy (d), AED100US18V1xy (d), AED100US18V2xy (d), AED100US18V3xy (d), AED100US18V4xy (d), AED100US18V5xy (d), AED100US18V6xy (d), AED100US18V7xy (d), AED100US18V8xy (d), AED100US18V9xy (d), AED100US18xy (d), AED100US19V1xy (d), AED100US19V2xy (d), AED100US19V3xy (d), AED100US19V4xy (d), AED100US19V5xy (d), AED100US19xy (d), AED100US24xy (d), AED100US28xy (d), AED100US29xy (d), AED100US30xy (d), AED100US36xy (d), AED100US48xy (d), AMD150PS12C6zzzz (&), AMD150PS12yyzzzz (&), AMD150PS19C6zzzz (&), AMD150PS19yyzzzz (&), AMD150PS24C6zzzz (&), AMD150PS24yyzzzz (&)

Switching Power Adaptor, Model(s) VEP36USXX-YZ (l)

Switching power adaptors, Model(s) AML120PS19YY (b), AML120PS20YY (b)

Switching power suppies, Model(s) HUP24-10YY (b)

Switching power supplies, Model(s) AEF100PSxxyy, AEF120Psxxyy, AEF150PSxxyy, AEH130PD01, AEH130PD01/#20030-01, AEH130PD01/#20031-01, AEH130PD02, AEH130PD03, AEH130PD04, AEH130PS05, AEH130PS05>2581, AEH130PS07, AEH130PS07/#30014-01, AEH130PS09, AEH130PS09#10021-01, AEH130PS12, AEH130PS12/#10060-01, AEH130PS12/#10078-01, AEH130PS15, AEH130PS18, AEH130PS24, AEH130PS24>2108, AEH130PS24>2569, AEH130PS28, AEH130PS28/#30035-01, AEH130PS28>2160, AEH130PS36, AEH130PS36/#20011-01, AEH130PS3V3, AEH130PS3V3>2136, AEH130PS48, AEH130PS48/#30001-01, AEH130PS48/#30018-01, AEH130PS48>2652, AEH130PS54, AEL15USzC6XY, AEL15USzXY

Switching power supplies, Model(s) AEL60US12-XY, AEL60US13-XY, AEL60US14-XY, AEL60US15-XY, AEL60US16-XY, AEL60US17-XY, AEL60US18-XY, AEL60US19-XY, AEL60US20-XY, AEL60US21-XY, AEL60US22-XY, AEL60US23-XY, AEL60US24-XY, AEL60US25-XY, AEL60US26-XY, AEL60US27-XY, AEL60US28-XY, AEL60US29-XY, AEL60US30-XY, AEL60US31-XY, AEL60US32-XY, AEL60US33-XY, AEL60US34-XY, AEL60US35-XY, AEL60US36-XY, AEL60US37-XY, AEL60US38-XY, AEL60US39-XY, AEL60US40-XY, AEL60US41-XY, AEL60US42-XY, AEL60US43-XY, AEL60US44-XY, AEL60US45-XY, AEL60US46-XY, AEL60US47-XY, AEL60US48-XY, AEL60US49-XY and AEL60US50-XY (w), AEL80US11-XY (f1), AEL80US12-XY (f1), AEL80US13-XY (f1), AEL80US14-XY (f1), AEL80US15-XY (f1), AEL80US16-XY (f1), AEL80US17-XY (f1), AEL80US18-XY (f1), AEL80US19-XY (f1), AEL80US20-XY (f1), AEL80US21-XY (f1), AEL80US22-XY (f1), AEL80US23-XY (f1), AEL80US24-XY (f1), AEL80US25-XY (f1), AEL80US26-XY (f1), AEL80US27-XY (f1), AEL80US28-XY (f1), AEL80US29-XY (f1), AEL80US30-XY (f1), AEL80US31-XY (f1), AEL80US32-XY (f1), AEL80US33-XY (f1), AEL80US34-XY (f1), AEL80US35-XY (f1), AEL80US36-XY (f1), AEL80US37-XY (f1), AEL80US38-XY (f1), AEL80US39-XY (f1), AEL80US40-XY (f1), AEL80US41-XY (f1), AEL80US42-XY (f1), AEL80US43-XY (f1), AEL80US44-XY (f1), AEL80US45-XY (f1), AEL80US46-XY (f1), AEL80US47-XY (f1), AEL80US48-XY (f1), AML120PS12YY (b), AML120PS15YY (b), AML120PS18YY (b), AML120PS24YY (b), AML120PS30YY (b), AML120PS36YY (b), AML120PS48YY (b), AML150PS12XX (c), AML150PS15XX (c), AML150PS19XX (c), AML150PS20XX (c), AML150PS24XX (c), HUP15X-00YY (b)(e), HUP15X-10-1YY (b)(e), HUP15X-10YY (b)(e), HUP15X-11YY (b)(e), HUP15X-12YY (b)(e), HUP15X-13-1YY (b)(e), HUP15X-13YY (b)(e), HUP15X-14YY (b)(e), HUP15X-16YY (b)(e), HUP15X-17YY (b)(e), HUP15X-18YY (b)(e), HUP24-10-1YY (b), HUP24-11YY (b), HUP24-12YY (b), HUP24-13-1YY (b), HUP24-13YY (b), HUP24-14YY (b), HUP24-16YY (b), HUP24-17YY (b), HUP24-18YY (b), HUP45-30/#10045-01

Switching power supplies, Model(s) MCEXT12V15WC1, MCEXT15V15WC1, MCEXT5V15WC1, MCEXT18V15WC1, MCEXT24V15WC1, MCEXT6V15WC1, MCEXT7V15WC1, MCEXT9V15WC1

Switching power supplies, Model(s) MCEXT12V15WC2,AEL15US12C2, MCEXT15V15WC2, AEL15US15C2, MCEXT5V15WC2, AEL15US05C2, MCEXT18V15WC2, AEL15US18C2, MCEXT24V15WC2, AEL15US24C2, MCEXT6V15WC2, AEL15US06C2, MCEXT7V15WC2, AEL15US07C2, MCEXT9V15WC2, AEL15US09C2, MCEXT12V60W, MCEXT15V60W, MCEXT18V60W, MCEXT24V60W, MCEXT5V25W, MCEXT7V25W, MCEXT9V25W, MCEXT12V25W, MCEXT24V25W

Switching power supplies, Model(s) VEH40US05-XY, VEH40US06-XY, VEH40US07-XY, VEH40US08-XY, VEH40US09-XY, VEH40US10-XY, VEH40US11-XYVEH40US12-XY (f1)

Switching power supplies, Model(s) VEH40US13-XY, VEH40US14-XY, VEH40US15-XY, VEH40US16-XY, VEH40US17-XY, VEH40US18-XY, VEH40US19-XY, VEH40US20-XY, VEH40US21-XY, VEH40US22-XY, VEH40US23-XY, VEH40US24-XY, VEH40US25-XY, VEH40US26-XY (f1)

Switching power supplies, Model(s) VEH40US27-XY, VEH40US28-XY, VEH40US29-XY, VEH40US30-XY, VEH40US31-XY, VEH40US32-XY, VEH40US33-XY, VEH40US34-XY, VEH40US35-XY, VEH40US36-XY, VEH40US37-XY, VEH40US38-XY (f1)

Switching power supplies, Model(s) VEH40US39-XY, VEH40US40-XY, VEH40US41-XY, VEH40US42-XY, VEH40US43-XY, VEH40US44-XY, VEH40US45-XY, VEH40US46-XY, VEH40US47-XY, VEH40US48-XY (f1), VEH60US12xy, VEH60US15xy, VEH60US16xy, VEH60US18xy, VEH60US19xy, VEH60US20xy, VEH60US24xy, VEH60US30xy

Switching power supplies (Desktop), Model(s) AEL20USZ-XY (@), AEL20USZC2-XY (@), AEL40USZ-XY (#), AEL40USZ-XY ($)

Switching Power Supply, Model(s) VEH20US05,VEH20US06, VEH20US07, VEH20US08,VEH20US09,VEH20US10, VEH20US11, VEH20US12, VEH20US13, VEH20US14, VEH20US15, VEH20US16, VEH20US17, VEH20US18, VEH20US19, VEH20US20, VEH20US21, VEH20US22, VEH20US23, VEH20US24, VEH20US25, VEH20US26, VEH20US27, VEH20US28, VEH20US29, VEH20US30, VEH20US31, VEH20US32, VEH20US33, VEH20US34, VEH20US35, VEH20US36, VEH20US37, VEH20US38, VEH20US39, VEH20US40, VEH20US41, VEH20US42, VEH20US43, VEH20US44, VEH20US45, VEH20US46, VEH20US47, VEH20US48, VEH20US49, VEH20US50, VEH20US05C6, VEH20US06C6, VEH20US07C6,VEH20US08C6,VEH20US09C6, VEH20US10C6, VEH20US11C6, VEH20US12C6, VEH20US13C6, VEH20US14C6, VEH20US15C6, VEH20US16C6, VEH20US17C6, VEH20US18C6,

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[Power Supplies] Power Supplies, Information Technology Equipment Including Electrical Business Equipment

See General Information for Power Supplies

GENERAL

This category covers power supplies rated 600 V or less, intended for use with information technology equipment (ITE) including electrical business equipment. End-use products that employ these types of power supplies are covered under Information Technology Equipment Including Electrical Business Equipment (NWGQ).

These power supplies are stand-alone units that deliver power to ITE via external interconnecting means.

This category also covers modular accessory power supplies. Such power supplies are types that are intended for field installation within personal computers, similar ITE, including telephone equipment. These modular power supplies are also provided with installation instructions relative to safe installation.

All power-supply types covered under this category are marked with input and output ratings that include the voltage and intended maximum load rating in amperes.

When power supplies intended for use with a detachable power-supply cord are not provided with such a cord, a cord suitable for connection of the equipment to the branch circuit is to be separately provided.

The investigation of a product covered under this category does not include the effects it may have on the system or equipment to which it is connected.

REBUILT PRODUCTS

This category also covers power supplies that are rebuilt by the original manufacturer or another party having the necessary facilities, technical knowledge and manufacturing skills. Rebuilt power supplies are rebuilt to the extent necessary by disassembly and reassembly using new or reconditioned parts. Rebuilt power supplies are subject to the same requirements as new power supplies.

ADDITIONAL INFORMATION

For additional information, see Power Supplies (QQAQ) and Electrical Equipment for Use in Ordinary Locations (AALZ).

REQUIREMENTS

The basic standard used to investigate products in this category is ANSI/UL 60950-1, "Information Technology Equipment - Safety - Part 1: General Requirements."

All low-voltage outputs (maximum 42.4 V peak or 60 V dc) are safety extra-low-voltage (SELV) as defined in ANSI/UL 60950-1. An output marked "LPS" has been determined to have an output level at or below the limited power-source level specified in ANSI/UL 60950-1, as it relates to the requirements for equipment supplied by the output.

An output marked "Class 2" has additionally been investigated to ANSI/UL 1310, "Class 2 Power Units."

UL MARK

The Listing Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the category identifier "Information Technology Equipment Power Supply" (or "I.T.E. Power Supply") or "QQGQ Power Supply."

For accessories, the Listing Mark is applied to modular accessory power supplies on an external surface that will be enclosed within the end-use product. The category identifier for accessories includes the word "Accessory."

For rebuilt products the word "Rebuilt," "Remanufactured" or "Reconditioned" precedes the product name.

* *

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XP POWER LTD **E317867**
401 COMMONWEALTH DR
HAW PAR TECHNOCENTRE
LOBBY B, #02-02
SINGAPORE, 149598 SINGAPORE

AC adapters, Model(s) AEB100PS12, AEB100PS125, AEB100PS15, AEB100PS24, AEB100PS48, AEB45US12, AEB45US15, AEB45US18, AEB45US19, AEB45US24, AEB45US48

AC adaptors, Model(s) AML180PS18C6zzzz (&), AML180PS18yyzzzz (&), AML180PS19C6zzzz (&), AML180PS19yyzzzz (&), AML180PS24C6zzzz (&), AML180PS24yyzzzz (&), AML180PS48C6zzzz (&), AML180PS48yyzzzz (&), VEH90PS12XXX (!), VEH90PS19XXX (!), VEH90PS24XXX (!)

Adapters, Model(s) AED or AEP followed by 06US068, AED or AEP followed by 06US065, AED06US06, AEP04US06, AED or AEP followed by 06US055, AED06US05, AEP04US05, AEP06US042

Adapters, Model(s) AED or AEP followed by 06US12, AED or AEP followed by 06US10, AED or AEP followed by 06US09, AED or AEP followed by 06US088, AED or AEP followed by 06US084, AED or AEP followed by 06US08, AED or AEP followed by 06US075, AED or AEP followed by 06US07

Adapters, Model(s) AED or AEP followed by 10US033, AED or AEP followed by 10US034, AED or AEP followed by 10US035, AED or AEP followed by 10US036, AED or AEP followed by 10US037, AED or AEP followed by 10US038, AED or AEP followed by 10US039, AED or AEP followed by 10US04

Adapters, Model(s) AED or AEP followed by 10US041, AED or AEP followed by 10US042, AED or AEP followed by 10US043, AED or AEP followed by 10US044, AED or AEP followed by 10US045, AED or AEP followed by 10US046, AED or AEP followed by 10US047, AED or AEP followed by 10US048

Adapters, Model(s) AED or AEP followed by 10US049, AED or AEP followed by 10US05, AED or AEP followed by 10US051, AED or AEP followed by 10US052, AED or AEP followed by 10US053, AED or AEP followed by 10US054, AED or AEP followed by 10US055, AED or AEP followed by 10US056

Adapters, Model(s) AED or AEP followed by 10US057, AED or AEP followed by 10US058, AED or AEP followed by 10US059, AED or AEP followed by 10US06, AED or AEP followed by 10US061, AED or AEP followed by 10US062, AED or AEP followed by 10US063

Adapters, Model(s) AED or AEP followed by 10US064, AED or AEP followed by 10US065, AED or AEP followed by 10US066, AED or AEP followed by 10US067, AED or AEP followed by 10US068, AED or AEP followed by 10US069, AED or AEP followed by 10US07, AED or AEP followed by 10US071

Adapters, Model(s) AED or AEP followed by 10US072, AED or AEP followed by 10US073, AED or AEP followed by 10US074, AED or AEP followed by 10US075, AED or AEP followed by 10US076, AED or AEP followed by 10US077, AED or AEP followed by 10US078

Adapters, Model(s) AED or AEP followed by 10US079, AED or AEP followed by 10US08, AED or AEP followed by 10US081, AED or AEP followed by 10US082, AED or AEP followed by 10US083, AED or AEP followed by 10US084, AED or AEP followed by 10US085, AED or AEP followed by 10US086

Adapters, Model(s) AED or AEP followed by 10US11, AED or AEP followed by 10US111, AED or AEP followed by 10US112, AED or AEP followed by 10US113, AED or AEP followed by 10US114, AED or AEP followed by 10US115

Adapters, Model(s) AED or AEP followed by 10US116, AED or AEP followed by 10US117, AED or AEP followed by 10US118, AED or AEP followed by 10US119, AED or AEP followed by 10US12, AED or AEP followed by 10US121, AED or AEP followed by 10US122

Adapters, Model(s) AED or AEP followed by 10US123, AED or AEP followed by 10US124, AED or AEP followed by 10US125, AED or AEP followed by 10US126, AED or AEP followed by 10US127, AED or AEP followed by 10US128, AED or AEP followed by 10US129, AED or AEP followed by 10US13

Adapters, Model(s) AED or AEP followed by 10US131, AED or AEP followed by 10US132, AED or AEP followed by 10US133, AED or AEP followed by 10US134, AED or AEP followed by 10US135, AED or AEP followed by 10US136

Adapters, Model(s) AED or AEP followed by 10US137, AED or AEP followed by 10US138, AED or AEP followed by 10US139, AED or AEP followed by 10US14, AED or AEP followed by 10US141, AED or AEP followed by 10US142, AED or AEP followed by 10US143

Adapters, Model(s) AED or AEP followed by 10US144, AED or AEP followed by 10US145, AED or AEP followed by 10US146, AED or AEP followed by 10US147, AED or AEP followed by 10US148, AED or AEP followed by 10US149, AED or AEP followed by 10US15, AED or AEP followed by

25US186, AED or AEP followed by 25US187

Adapters, Model(s) AED or AEP followed by 25US188, AED or AEP followed by 25US189, AED or AEP followed by 25US19, AED or AEP followed by 25US191, AED or AEP followed by 25US192, AED or AEP followed by 25US193, AED or AEP followed by 25US194, AED or AEP followed by 25US195, AED or AEP followed by 25US196

Adapters, Model(s) AED or AEP followed by 25US197, AED or AEP followed by 25US198, AED or AEP followed by 25US199, AED or AEP followed by 25US20, AED or AEP followed by 25US201, AED or AEP followed by 25US202, AED or AEP followed by 25US203, AED or AEP followed by 25US204, AED or AEP followed by 25US205, AED or AEP followed by 25US206, AED or AEP followed by 25US207, AED or AEP followed by 25US208, AED or AEP followed by 25US209, AED or AEP followed by 25US21, AED or AEP followed by 25US211

Adapters, Model(s) AED or AEP followed by 25US212, AED or AEP followed by 25US213, AED or AEP followed by 25US214, AED or AEP followed by 25US215, AED or AEP followed by 25US216, AED or AEP followed by 25US217, AED or AEP followed by 25US218, AED or AEP followed by 25US219, AED or AEP followed by 25US22, AED or AEP followed by 25US221, AED or AEP followed by 25US222

Adapters, Model(s) AED or AEP followed by 25US223, AED or AEP followed by 25US224, AED or AEP followed by 25US225, AED or AEP followed by 25US226, AED or AEP followed by 25US227, AED or AEP followed by 25US228, AED or AEP followed by 25US229, AED or AEP followed by 25US23

Adapters, Model(s) AED or AEP followed by 25US231, AED or AEP followed by 25US232, AED or AEP followed by 25US233, AED or AEP followed by 25US234, AED or AEP followed by 25US235, AED or AEP followed by 25US236, AED or AEP followed by 25US237, AED or AEP followed by 25US238, AED or AEP followed by 25US239, AED or AEP followed by 25US24, AED36US05YY, AED36US09YY, AED36US12YY, AED36US15YY, AED36US18YY, AED36US24YY, AEP06US05, AEP06US06, AEP15US075, AED15US07, AEP15US136, AED15US13

Adapters, Model(s) AEP25US033, AED25US03, AED or AEP followed by 25US034, AED or AEP followed by 25US035, AED or AEP followed by 25US036, AED or AEP followed by 25US037, AED or AEP followed by 25US038, AED or AEP followed by 25US039, AED or AEP followed by 25US04, CUP36-10, CUP36-11, CUP36-12, CUP36-12-1, CUP36-13, CUP36-13-1, CUP36-14, CUP36-18, CUP45 -10(X), CUP45 -12(X), CUP45 -13(X), CUP45 -13-1(X), CUP45 -13-2(X), CUP45 -14(X), CUP45 -18(X), CUP70 -12(X), CUP70 -13(X), CUP70 -13-1(X), CUP70 -13-2(X), CUP70 -14(X), CUP70 -18(X), CUP70-16XX(g)

Directing plug in switching adapters, Model(s) VEP08US03-xy, VEP08US033-xy, VEP08US042-xy, VEP08US05-xy, VEP08US055-xy, VEP08US057-xy, VEP08US06-xy, VEP08US065-xy, VEP08US07-xy, VEP08US075-xy, VEP08US08-xy, VEP08US085-xy, VEP08US09-xy, VEP08US105-xy, VEP08US12-xy, VEP08US125-xy, VEP08US138-xy, VEP08US15-xy, VEP08US18-xy

Power adapters, Model(s) AED45US12YY, AED45US15YY, AED45US18YY, AED45US19YY, AED45US24YY, AED45US45YY, AED70US12YY, AED70US15YY, AED70US18YY, AED70US19YY, AED70US24YY, AED70US48YY, AEH45UM21YY*(b), AEH45UM22YY*(b), AEH45UM28YY*(b), AEH45UM29YY*(b)

Power adapters, Model(s) AEH45US02YY(b), AEH45US03YY(b), AEH45US05YY(b), AEH45US07YY(b), AEH45US10YY(b), AEH45US12YY(b), AEH45US15YY(b), AEH45US18YY(b), AEH45US24YY(b), AEH45US30YY(b), AEH45US36YY(b), AEH45UM23YY(b), AEH45UM26YY(b), AEH45UM25YY (b), AEH45UM35YY(b), AEH45UM33YY(b), AEH45UM31YY(b), AEH45UM32YY(b), AEH45UM39YY(b), AEH45UM38YY(b), AEH45UM34YY(b), CUP45-10YY (b), CUP45-12YY (b), CUP45-13-1YY (b), CUP45-13-2YY (b), CUP45-13YY (b), CUP45-14YY (b), CUP45-18YY (b), CUP70-12YY (b), CUP70-13-1YY (b), CUP70-13-2YY (b), CUP70-13YY (b), CUP70-14YY (b), CUP70-16YY (b), CUP70-18YY (b), HUP-17YY (b), HUP45-00YY (b), HUP45-02YY (b), HUP45-10-1YY (b), HUP45-10YY (b), HUP45-11YY (b), HUP45-12YY (b), HUP45-13-1YY (b), HUP45-13YY (b), HUP45-14YY (b), HUP45-16YY (b), HUP45-18YY (b), HUP45-21YY (b), HUP45-22YY (b), HUP45-23YY (b), HUP45-24YY (b), HUP45-25-1YY (b), HUP45-25YY (b), HUP45-26YY (b), HUP45-30YY (b), HUP45-31YY (b), HUP45-32YY, HUP45-36-1YY, HUP45-36-3YY (b), HUP45-39-1YY, HUP45-39YY

Power supplies, Model(s) AEH15US05YY(b), AEH15US07YY(b), AEH15US10YY(b), AEH15US12YY(b), AEH15US15YY(b), AEH15US18YY (b),AEH15US24YY(b),AEH15US30YY(b),AEH15US36YY(b),AEH15US48YY(b)

Power supplies, Model(s) AEH60US05YY*(b), AEH60US07YY(b), AEH60US10YY(b), AEH60US12YY(b), AEH60US15YY(b), AEH60US18YY(b), AEH60US24YY(b), AEH60US30YY(b), AEH60US36YY(b), AEH60US48YY(b), AEH60US05YY*(b), AMM150PSxCyyyzzzz (a), HUP15X-00YY (b)(e), HUP15X-10-1YY (b)(e), HUP15X-10YY (b)(e), HUP15X-11YY (b)(e), HUP15X-12YY (b)(e), HUP15X-13-1YY (b)(e), HUP15X-13YY (b)(e), HUP15X-14YY (b)(e), HUP15X-16YY (b)(e), HUP15X-17YY (b)(e), HUP15X-18YY (b)(e), HUP40-10-1YY (b), HUP40-10YY (b), HUP40-11YY (b), HUP40-12YY (b), HUP40-13-1YY (b), HUP40-13YY (b), HUP40-14YY (b), HUP40-16YY (b), HUP40-17YY (b), HUP40-23-1YY (b), HUP40-23YY (b), HUP40-24YY (b), HUP40-25YY (b), HUP40-30YY (b), HUP40-31-1YY (b), HUP40-31YY (b), HUP40-32YY (b), HUP60-10-1YY (b), HUP60-10YY (b), HUP60-11YY (b), HUP60-12YY (b), HUP60-13-1YY (b), HUP60-13YY (b), HUP60-14YY (b), HUP60-16YY (b), HUP60-17YY (b), HUP60-18YY (b), HUP80-00YY (b), HUP80-10-1YY (b), HUP80-10YY (b), HUP80-11YY (b), HUP80-12YY (b), HUP80-13-1YY (b), HUP80-13YY (b), HUP80-14YY (b), HUP80-16YY (b), HUP80-17YY (b), HUP80-18YY (b), HUP80-23YY (b), HUP80-24YY (b), HUP80-25-1YY (b), HUP80-25YY (b), HUP80-26YY (b), HUP80-27YY (b), HUP80-30YY (b), HUP80-31YY (b), HUP80-32YY (b), HUP80-36-1YY (b), HUP80-36-3YY (b), HUP80-39-1YY (b), HUP80-39YY (b), PUP110-10-0-ZZ-S (i), PUP110-10-1-ZZ-S (i), PUP110-10-2-ZZ-S (i), PUP110-10-S8-ZZ-S (i), PUP110-10-ZZ-S (i), PUP110-12-0-ZZ-S (i), PUP110-12-1-ZZ-S (i), PUP110-12-2-ZZ-S (i), PUP110-12-S8-ZZ-S (i), PUP110-12-ZZ-S (i), PUP110-13-0-ZZ-S (i), PUP110-13-1-ZZ-S (i), PUP110-13-2-ZZ-S (i), PUP110-13-S8-ZZ-S (i), PUP110-13-ZZ-S (i), PUP110-14-0-ZZ-S (i), PUP110-14-1-ZZ-S (i), PUP110-14-2-ZZ-S (i), PUP110-14-S8-ZZ-S (i), PUP110-14-ZZ-S (i), PUP110-16-0-ZZ-S (i), PUP110-16-1-ZZ-S (i), PUP110-16-2-ZZ-S (i), PUP110-16-S8-ZZ-S (i), PUP110-16-ZZ-S (i), PUP110-18-0-ZZ-S (i), PUP110-18-1-ZZ-S (i), PUP110-18-2-ZZ-S (i), PUP110-18-S8-ZZ-S (i), PUP110-18-ZZ-S (i), PUP110-23-0-ZZ-S (i), PUP110-23-1-ZZ-S (i), PUP110-23-2-ZZ-S (i), PUP110-23-S8-ZZ-S (i), PUP110-23-ZZ-S (i), PUP110-26-0-ZZ-S (i), PUP110-26-1-ZZ-S (i), PUP110-26-2-ZZ-S (i), PUP110-26-S8-ZZ-S (i), PUP110-26-ZZ-S (i), PUP110-31-0-ZZ-S (i), PUP110-31-1-ZZ-S (i), PUP110-31-2-ZZ-S (i), PUP110-31-S8-ZZ-S (i), PUP110-31-ZZ-S (i), PUP110-32-0-ZZ-S (i), PUP110-32-1-ZZ-S (i), PUP110-32-2-ZZ-S (i), PUP110-32-S8-ZZ-S (i), PUP110-32-ZZ-S (i), PUP110-40-0-ZZ-S (i), PUP110-40-1-ZZ-S (i), PUP110-40-2-ZZ-S (i), PUP110-40-S8-ZZ-S (i), PUP110-40-ZZ-S (i), PUP110-41-0-ZZ-S (i), PUP110-41-1-ZZ-S (i), PUP110-41-2-ZZ-S (i), PUP110-41-S8-ZZ-S (i), PUP110-41-ZZ-S (i), PUP110-42-0-ZZ-S (i), PUP110-42-1-ZZ-S (i), PUP110-42-2-ZZ-S (i), PUP110-42-S8-ZZ-S (i), PUP110-42-ZZ-S (i), PUP110-45-0-ZZ-S (i), PUP110-45-1-ZZ-S (i), PUP110-45-2-ZZ-S (i), PUP110-45-S8-ZZ-S (i), PUP110-45-ZZ-S (i), PUP110-46-0-ZZ-S (i), PUP110-46-1-ZZ-S (i), PUP110-46-2-ZZ-S (i), PUP110-46-S8-ZZ-S (i), PUP110-46-ZZ-S (i), PUP30-10 (h), PUP30-10-1 (h), PUP30-11 (h), PUP30-12 (h), PUP30-13 (h), PUP30-13-1 (h), PUP30-14 (h), PUP30-16 (h), PUP30-17 (h), PUP30-18 (h), PUP30-23 (h), PUP30-24 (h), PUP30-25 (h), PUP30-31 (h), PUP30-32 (h), PUP30-32-1 (h), PUP30-32-4 (h), PUP55-10, PUP55-10-1, PUP55-11, PUP55-12, PUP55-13, PUP55-13-1, PUP55-14, PUP55-16, PUP55-17, PUP55-18, PUP55-23, PUP55-24, PUP55-25, PUP55-31, PUP55-31-3D, PUP55-32

Power supply adapters, Model(s) AEB36US05, AEB36US09, AEB36US12, AEB36US13, AEB36US15, AEB36US18, AEB36US24, AEB36US48

Power supply adaptors, Model(s) PUP56-1X-YYY-Z (k)

Swiching power supply units, Model(s) AFM120PS22, AFM120PS22C6, AFM120PS24, AFM120PS24C6, AFM120PS26, AFM120PS26C6

Switch-mode brick style power supplies, Model(s) PDM60US12, PDM60US15, PDM60US18, PDM60US24, PDM60US30, PDM60US36,

PDM60US48

Switching power adapters, Model(s) AEB70US12, AEB70US15, AEB70US16, AEB70US18, AEB70US19, AEB70US24, AEB70US48, AED100US12V1xy (d), AED100US12v2xy (d), AED100US12V3xy (d), AED100US12V4xy (d), AED100US12V5xy (d), AED100US12V6xy (d), AED100US12V7xy (d), AED100US12V8xy (d), AED100US12V9xy (d), AED100US12xy (d), AED100US13V1xy (d), AED100US13V2xy (d), AED100US13V3xy (d), AED100US13V4xy (d), AED100US13V5xy (d), AED100US13V6xy (d), AED100US13V7xy (d), AED100US13V8xy (d), AED100US13V9xy (d), AED100US13xy (d), AED100US14V1xy (d), AED100US14V2xy (d), AED100US14V3xy (d), AED100US14V4xy (d), AED100US14V5xy (d), AED100US14V6xy (d), AED100US14V7xy (d), AED100US14V8xy (d), AED100US14V9xy (d), AED100US14xy (d), AED100US15V1xy (d), AED100US15V2xy (d), AED100US15V3xy (d), AED100US15V4xy (d), AED100US15V5xy (d), AED100US15V6xy (d), AED100US15V7xy (d), AED100US15V8xy (d), AED100US15V9xy (d), AED100US15xy (d), AED100US16V1xy (d), AED100US16V2xy (d), AED100US16V3xy (d), AED100US16V4xy (d), AED100US16V5xy (d), AED100US16V6xy (d), AED100US16V7xy (d), AED100US16V8xy (d), AED100US16V9xy (d), AED100US16xy (d), AED100US17V1xy (d), AED100US17V2xy (d), AED100US17V3xy (d), AED100US17V4xy (d), AED100US17V5xy (d), AED100US17V6xy (d), AED100US17V7xy (d), AED100US17V8xy (d), AED100US17V9xy (d), AED100US17xy (d), AED100US18V1xy (d), AED100US18V2xy (d), AED100US18V3xy (d), AED100US18V4xy (d), AED100US18V5xy (d), AED100US18V6xy (d), AED100US18V7xy (d), AED100US18V8xy (d), AED100US18V9xy (d), AED100US18xy (d), AED100US19V1xy (d), AED100US19V2xy (d), AED100US19V3xy (d), AED100US19V4xy (d), AED100US19V5xy (d), AED100US19xy (d), AED100US24xy (d), AED100US28xy (d), AED100US29xy (d), AED100US30xy (d), AED100US36xy (d), AED100US48xy (d), AMD150PS12C6zzzz (&), AMD150PS12yyzzzz (&), AMD150PS19C6zzzz (&), AMD150PS19yyzzzz (&), AMD150PS24C6zzzz (&), AMD150PS24yyzzzz (&)

Switching Power Adaptor, Model(s) VEP36USXX-YZ (l)

Switching power adaptors, Model(s) AML120PS19YY (b), AML120PS20YY (b)

Switching power suppies, Model(s) HUP24-10YY (b)

Switching power supplies, Model(s) AEF100PSxxyy, AEF120Psxxyy, AEF150PSxxyy, AEH130PD01, AEH130PD01/#20030-01, AEH130PD01/#20031-01, AEH130PD02, AEH130PD03, AEH130PD04, AEH130PS05, AEH130PS05>2581, AEH130PS07, AEH130PS07/#30014-01, AEH130PS09, AEH130PS09#10021-01, AEH130PS12, AEH130PS12/#10060-01, AEH130PS12/#10078-01, AEH130PS15, AEH130PS18, AEH130PS24, AEH130PS24>2108, AEH130PS24>2569, AEH130PS28, AEH130PS28/#30035-01, AEH130PS28>2160, AEH130PS36, AEH130PS36/#20011-01, AEH130PS3V3, AEH130PS3V3>2136, AEH130PS48, AEH130PS48/#30001-01, AEH130PS48/#30018-01, AEH130PS48>2652, AEH130PS54, AEL15USzC6XY, AEL15USzXY

Switching power supplies, Model(s) AEL60US12-XY, AEL60US13-XY, AEL60US14-XY, AEL60US15-XY, AEL60US16-XY, AEL60US17-XY, AEL60US18-XY, AEL60US19-XY, AEL60US20-XY, AEL60US21-XY, AEL60US22-XY, AEL60US23-XY, AEL60US24-XY, AEL60US25-XY, AEL60US26-XY, AEL60US27-XY, AEL60US28-XY, AEL60US29-XY, AEL60US30-XY, AEL60US31-XY, AEL60US32-XY, AEL60US33-XY, AEL60US34-XY, AEL60US35-XY, AEL60US36-XY, AEL60US37-XY, AEL60US38-XY, AEL60US39-XY, AEL60US40-XY, AEL60US41-XY, AEL60US42-XY, AEL60US43-XY, AEL60US44-XY, AEL60US45-XY, AEL60US46-XY, AEL60US47-XY, AEL60US48-XY, AEL60US49-XY and AEL60US50-XY (w), AEL80US11-XY (f1), AEL80US12-XY (f1), AEL80US13-XY (f1), AEL80US14-XY (f1), AEL80US15-XY (f1), AEL80US16-XY (f1), AEL80US17-XY (f1), AEL80US18-XY (f1), AEL80US19-XY (f1), AEL80US20-XY (f1), AEL80US21-XY (f1), AEL80US22-XY (f1), AEL80US23-XY (f1), AEL80US24-XY (f1), AEL80US25-XY (f1), AEL80US26-XY (f1), AEL80US27-XY (f1), AEL80US28-XY (f1), AEL80US29-XY (f1), AEL80US30-XY (f1), AEL80US31-XY (f1), AEL80US32-XY (f1), AEL80US33-XY (f1), AEL80US34-XY (f1), AEL80US35-XY (f1), AEL80US36-XY (f1), AEL80US37-XY (f1), AEL80US38-XY (f1), AEL80US39-XY (f1), AEL80US40-XY (f1), AEL80US41-XY (f1), AEL80US42-XY (f1), AEL80US43-XY (f1), AEL80US44-XY (f1), AEL80US45-XY (f1), AEL80US46-XY (f1), AEL80US47-XY (f1), AEL80US48-XY (f1), AML120PS12YY (b), AML120PS15YY (b), AML120PS18YY (b), AML120PS24YY (b), AML120PS30YY (b), AML120PS36YY (b), AML120PS48YY (b), AML150PS12XX (c), AML150PS15XX (c), AML150PS19XX (c), AML150PS20XX (c), AML150PS24XX (c), HUP15X-00YY (b)(e), HUP15X-10-1YY (b)(e), HUP15X-10YY (b)(e), HUP15X-11YY (b)(e), HUP15X-12YY (b)(e), HUP15X-13-1YY (b)(e), HUP15X-13YY (b)(e), HUP15X-14YY (b)(e), HUP15X-16YY (b)(e), HUP15X-17YY (b)(e), HUP15X-18YY (b)(e), HUP24-10-1YY (b), HUP24-11YY (b), HUP24-12YY (b), HUP24-13-1YY (b), HUP24-13YY (b), HUP24-14YY (b), HUP24-16YY (b), HUP24-17YY (b), HUP24-18YY (b), HUP45-30/#10045-01

Switching power supplies, Model(s) MCEXT12V15WC1, MCEXT15V15WC1, MCEXT5V15WC1, MCEXT18V15WC1, MCEXT24V15WC1, MCEXT6V15WC1, MCEXT7V15WC1, MCEXT9V15WC1

Switching power supplies, Model(s) MCEXT12V15WC2,AEL15US12C2, MCEXT15V15WC2, AEL15US15C2, MCEXT5V15WC2, AEL15US05C2, MCEXT18V15WC2, AEL15US18C2, MCEXT24V15WC2, AEL15US24C2, MCEXT6V15WC2, AEL15US06C2, MCEXT7V15WC2, AEL15US07C2, MCEXT9V15WC2, AEL15US09C2, MCEXT12V60W, MCEXT15V60W, MCEXT18V60W, MCEXT24V60W, MCEXT5V25W, MCEXT7V25W, MCEXT9V25W, MCEXT12V25W, MCEXT24V25W

Switching power supplies, Model(s) VEH40US05-XY, VEH40US06-XY, VEH40US07-XY, VEH40US08-XY, VEH40US09-XY, VEH40US10-XY, VEH40US11-XYVEH40US12-XY (f1)

Switching power supplies, Model(s) VEH40US13-XY, VEH40US14-XY, VEH40US15-XY, VEH40US16-XY, VEH40US17-XY, VEH40US18-XY, VEH40US19-XY, VEH40US20-XY, VEH40US21-XY, VEH40US22-XY, VEH40US23-XY, VEH40US24-XY, VEH40US25-XY, VEH40US26-XY (f1)

Switching power supplies, Model(s) VEH40US27-XY, VEH40US28-XY, VEH40US29-XY, VEH40US30-XY, VEH40US31-XY, VEH40US32-XY, VEH40US33-XY, VEH40US34-XY, VEH40US35-XY, VEH40US36-XY, VEH40US37-XY, VEH40US38-XY (f1)

Switching power supplies, Model(s) VEH40US39-XY, VEH40US40-XY, VEH40US41-XY, VEH40US42-XY, VEH40US43-XY, VEH40US44-XY, VEH40US45-XY, VEH40US46-XY, VEH40US47-XY, VEH40US48-XY (f1), VEH60US12xy, VEH60US15xy, VEH60US16xy, VEH60US18xy, VEH60US19xy, VEH60US20xy, VEH60US24xy, VEH60US30xy

Switching power supplies (Desktop), Model(s) AEL20USZ-XY (@), AEL20USZC2-XY (@), AEL40USZ-XY (#), AEL40USZ-XY ($)

Switching Power Supply, Model(s) VEH20US05,VEH20US06, VEH20US07, VEH20US08,VEH20US09,VEH20US10, VEH20US11, VEH20US12, VEH20US13, VEH20US14, VEH20US15, VEH20US16, VEH20US17, VEH20US18, VEH20US19, VEH20US20, VEH20US21, VEH20US22, VEH20US23, VEH20US24, VEH20US25, VEH20US26, VEH20US27, VEH20US28, VEH20US29, VEH20US30, VEH20US31, VEH20US32, VEH20US33, VEH20US34, VEH20US35, VEH20US36, VEH20US37, VEH20US38, VEH20US39, VEH20US40, VEH20US41, VEH20US42, VEH20US43, VEH20US44, VEH20US45, VEH20US46, VEH20US47, VEH20US48, VEH20US49, VEH20US50, VEH20US05C6, VEH20US06C6, VEH20US07C6,VEH20US08C6,VEH20US09C6, VEH20US10C6, VEH20US11C6, VEH20US12C6, VEH20US13C6, VEH20US14C6, VEH20US15C6, VEH20US16C6, VEH20US17C6, VEH20US18C6, VEH20US19C6, VEH20US20C6, VEH20US21C6, VEH20US22C6, VEH20US23C6, VEH20US24C6, VEH20US25C6, VEH20US26C6, VEH20US27C6, VEH20US28C6, VEH20US29C6,VEH20US30C6, VEH20US31C6, VEH20US32C6, VEH20US33C6, VEH20US34C6, VEH20US35C6, VEH20US36C6, VEH20US37C6, VEH20US38C6, VEH20US39C6, VEH20US40C6, VEH20US41C6, VEH20US42C6, VEH20US43C6, VEH20US44C6, VEH20US45C6, VEH20US46C6, VEH20US47C6, VEH20US48C6, VEH20US49C6, VEH20US50C6

Switching Power Supply, Model(s) VEH20US05C2, VEH20US06C2, VEH20US07C2, VEH20US08C2, VEH20US09C2, VEH20US10C2, VEH20US11C2, VEH20US12C2, VEH20US13C2, VEH20US14C2, VEH20US15C2, VEH20US16C2, VEH20US17C2, VEH20US18C2, VEH20US19C2,

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See General Information for Power Supplies Certified for Canada

GENERAL

This category covers power supplies rated 600 V or less, intended for use with information technology equipment (ITE) including electrical business equipment. End-use products that employ these types of power supplies are covered under Information Technology Equipment Including Electrical Business Equipment Certified for Canada (NWGQ7).

All power-supply types covered under this category are marked with input and output electrical ratings that include the voltage and intended maximum load ratings in amperes.

When power supplies intended for use with a detachable power-supply cord are not provided with such a cord, a cord suitable for connection of the equipment to the branch circuit is to be separately provided.

The investigation of a product covered under this category does not include the effects it may have on the system or equipment to which it is connected.

REBUILT PRODUCTS

This category also covers power supplies that are rebuilt by the original manufacturer or another party having the necessary facilities, technical knowledge and manufacturing skills. Rebuilt power supplies are rebuilt to the extent necessary by disassembly and reassembly using new or reconditioned parts. Rebuilt power supplies are subject to the same requirements as new power supplies.

ADDITIONAL INFORMATION

For additional information, see Power Supplies Certified for Canada (QQAQ7) and Electrical Equipment for Use in Ordinary Locations Certified for Canada (AALZ7).

REQUIREMENTS

The basic standard used to investigate products in this category is CAN/CSA-C22.2 No. 60950-1, "Information Technology Equipment - Safety - Part 1: General Requirements."

All low-voltage outputs (maximum 42.4 volts peak or 60 V dc) are safety extra-low-voltage (SELV) as defined in CAN/CSA-C22.2 No. 60950-1. An output marked "LPS" has been determined to have an output level at or below the limited power-source level specified in CAN/CSA-C22.2 No. 60950-1, as it relates to the requirements for equipment supplied by the output.

An output marked "Class 2" has additionally been investigated to CAN/CSA-C22.2 No. 223, "Power Supplies with Extra Low Voltage Class 2 Outputs."

UL MARK

The Listing Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL Mark for Canada symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the category identifier "Information Technology Equipment Power Supply" (or "I.T.E. Power Supply") or "QQGQ7 Power Supply."

For accessories, the Listing Mark is applied to modular accessory power supplies on an external surface that will be enclosed within the end-use product. The category identifier for accessories includes the word "Accessory."

For rebuilt products the word "Rebuilt,""Remanufactured" or "Reconditioned" precedes the product name.

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