

QQGQ8.E152784

Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component

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See General Information for Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component

OMRON CORP

E152784

SAFETY STANDARDS GROUP

IAB TECHNOLOGY DEVELOPMENT CENTER H Q

SHIOKOJI HORIKAWA, SHIMOGYO-KU

KYOTO 600-8530, JAPAN

Model No.	Rated Input		SC	Max Output			OC	SP	EP	FC	GC
	Volts	Hz		V	A	VA					
S82K Series											
	100-240ac	50/60	0	24	4.2	-	4	60950-1	-	0	0
S8E3 Series											
	100-120ac	50/60	3	15	5	-	3	1950	-	0	0
S8PE-F120024C-(#), S8PE-F120048C-(#)											
	400-500ac	50/60	0	57.7	55.3	1532	3	60950	15B	5	1
S8PE-F12012CD-(#), S8PE-F12024CD-(#), S8PE-F12048CD-(#)											
	400-500ac	50/60	0	53.3	10.3	159	3	60950	15B	5	1
S8PE-F24012CD-(#), S8PE-F24024CD-(#), S8PE-F24048CD-(#)											
	400-500ac	50/60	0	57.1	19.2	321	3	60950	15B	5	1
S8PE-F48012C-(#), S8PE-F48024C-(#), S8PE-F48048C-(#), S8PE-F48012CD-(#), S8PE-F48024CD-(#), S8PE-F48048CD-(#)											
	400-500ac	50/60	0	57.1	35.6	541	3	60950	15B	5	1
S8PE-F96012C-(#), S8PE-F96024C-(#), S8PE-F96048C-(#)											
	400-500ac	50/60	0	57.7	78.1	1448	3	60950	15B	5	1
S8PE-J12012CD-(#), S8PE-J12024CD-(#), S8PE-J12048CD-(#)											
	200-240ac	50/60	0	57.2	10.1	159	3	60950	15B	5	1

	100-240ac	50/60	0	29.55	8.15	226	3	60950-1	-	0	0
S8VS-24024(c)(e), S8VS-24024A(c)(e), S8VS-24024B(c)(e)											
	100-240ac	50/60	0	28.65	11.2	305	3	60950	-	0	0
ZEN-PA03024(c)(e)											
	100-240ac	50/60	0	29.6	1.62	47	3	60950-1	20B	0	2

[*r] - Output values are rated.

(#) - Followed by additional numbers or a blank.

(c) - May be followed by P, may be followed by an additional three digit number 300 - 999 inclusive, or a blank.

(e) - Complementary Recognized under UL 508.

Marking: Company name, model designation and Recognized Component Mark for Canada, .

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Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component

[Power Supplies Certified for Canada - Component]Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component

Guide Information

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.

GENERAL

This category covers component power supplies intended for use in/with information processing and 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 (NWGO7).

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 extra low voltage (ELV)*	3
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.

OC Categories	Code
Branch circuit power	0
CEC Class 2	1
Isolated extra low voltage (ELV)*	2
Isolated safety extra low voltage (SELV)*	3
Isolated secondary circuit	4
* ELV and SELV are defined in CAN/CSA C22.2 No. 60950 and CAN/CSA C22.2 No. 60950-1	

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

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

REBUILT PRODUCTS

This category also covers Recognized Component 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.

RELATED PRODUCTS

See Power Supplies, General Purpose Certified for Canada (**QQFU8**).

ADDITIONAL INFORMATION

For additional information, see Power Supplies Certified for Canada (**QQAQ8**).

REQUIREMENTS

The basic standards currently used to investigate products in this category are CAN/CSA C22.2 No. 60950 or CAN/CSA C22.2 No. 60950-1, "Safety of Information Technology Equipment."

UL MARKING

Components Recognized under UL's Component Recognition Program are identified by markings consisting of the manufacturer's identification and catalog, model or other product designation. In addition, components which are 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 which actually bear the "Marking" should be considered as being covered under the Component Recognition Program.

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Power Supplies Certified for Canada - Component

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These recognitions cover the following products:

- General Purpose Power Supplies
- Specialty Power Supplies
- Information Technology and Business Equipment Power Supplies
- Telephone Power Supplies

Unless specified otherwise in the individual recognitions, consideration is to be given to the following conditions of acceptability when these components are employed in end-use products.

1) **Codes** — The following summarizes and defines codes shown in the individual recognitions. If not applicable, a "-" (dash) is indicated in the individual recognition. Unique conditions of acceptability are indicated in individual recognitions.

Supply category (SC) — Code identifies the type of supply to which the component is intended to be connected. Refer to guides of individual categories below for SC codes.

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

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

Maximum Volt-Amperes (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. Refer to guides of individual categories below for OC codes. Convenience receptacles connected to the supply circuit are not considered outputs, however, these are to be loaded to determine the overall heating effect in the application.

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

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

EP Categories	Code
Specified current rating,	@B
branch protection	
Specified current rating,	@T

time delay fuse	
Specified current rating,	@
not branch protection	

((@)) — Indicates current rating of protection in amps.

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

FC Categories	Code
Supply & 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 & output suitable for FC (+)	5
Supply suitable for FC (++)	6
Output suitable for FC (++)	7
Supply & 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

2) A test shall be conducted to determine whether a hazard is present when connected to an incorrect supply source if the user has access to voltage selection means employed in multiple rated supply voltage units.



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