

## QQGQ2.E135494

### Power Supplies, Information Technology Equipment Including Business Equipment - Component

### Power Supplies, Information Technology Equipment Including Electrical Business Equipment - Component

**COUTANT LAMBDA LTD**  
 KINGSLEY AVE  
 DEVON, ILFRACOMBE  
 EX34 8ES ENGLAND, UNITED KINGDOM

E135494

Model No.	Rated Input			Max Output			OC	SP	EP	FC	GC
	Volts	Hz	SC	V	A	VA					
<b>1084-015(f1)(f8)[*r]</b>											
	120/ 240ac	50/60	0	28	170	1000	4	1950 w/D3	-	0	0
<b>ALPHA 1500(f1)(f2) Series, CA1500(f1)(f2)</b>											
	90-264ac	47-63	0	32	85	1690	3	1950	-	0	0
<b>ALPHA 400(f1)(f2) Series, CA400(f1)(f2) Series, MA-400(f1)(f2) Series[*r]</b>											
	90-253ac	47-63	0	28	25	400	3	1950	-	0	0
<b>ALPHA 600(f1)(f2) Series, CA 600(f1)(f2) Series, MA600(f1)(f2) Series, NS-WAK-001(f1)(f2) Series</b>											
	90-255ac	47-63	0	28	60	600	3	1950	-	0	0
<b>ALPHA 800(f1)(f2) Series, ALPHA 1000(f1)(f2) Series, CA800(f1)(f2) Series, CA1000(f1)(f2) Series, NS-AMD-001(f1)(f2) Series[*r]</b>											
	85-264/ 120- 360ac	47- 63/dc	0	29	85	1000	3	1950	-	0	0
<b>CA1250 12C_MF_PP 12F_PP 12F_PP 12F_PP(f3), NS-AMD-002(f3)[*r]</b>											
	207- 264ac	47-63	0	13	16	1378	3	1950	-	0	0
				13	30	-	3				
<b>CS250(f1)(f2)(f3), Sirius 250(f1)(f2)(f3)[*r]</b>											

	85-264/ 120- 360ac	45- 65/dc	0	28	35	250	3	1950	-	0	0
				28	35	250	3				
<b>CSF250(f1)(f2)(f3), Sirius F250(f1)(f2)(f3)*r]</b>											
	85-264/ 120- 360ac	45- 65/dc	0	30	30	250	3	1950	-	0	0
<b>CSF350(f1)(f2)(f3), Sirius F350(f1)(f2)(f3)*r]</b>											
	85-264/ 120- 360ac	45- 65/dc	0,4	30	45	350	3	1950	-	0	0
<b>CSM200(f3), Sirius M200(f3)*r]</b>											
	85-264/ 120- 360ac	45- 65/dc	0	5.8	12	200	3	1950	-	0	1
				27	7	-	3				
				16.5	3.5	-	3				
<b>CSM201f3), Sirius K201(f3)</b>											
	85-264/ 120- 360ac	45- 65dc	-	27dc	7	200	3	1950	-	-	1
				5.8dc	3.5	-	3				
<b>DRP120-1</b>											
	115/ 230ac	50/60	0	28	5	140	3	1950	15	8	0
<b>DRP120-3</b>											
	380- 500ac	50/60	0	28	5	140	3	1950	15	8	0
<b>DRP120R-1</b>											
	115/ 230ac	50/60	0	28	5	140	3	1950	15	8	0
<b>DRP144-1</b>											
	100-120/ 200- 240ac	50/60	0	28	5	140	3	1950	15	8	0
<b>DRP240-1, DRP240R-1</b>											
	115/ 230ac	50/60	0	24	20.9	357	3	1950	10B	0	0
<b>DRP288-1</b>											
	115/ 230ac	50/60	0	24	22.9	526	3	1950	10B	0	1



	90-265ac	47-63	0	57	80	400	3	1950	-	0	0
<b>MML600(f1)(f2) Series, NS-EME-001(f1)(f2), NS-MEL-070(f1)(f2), NS-MEL-070A(f1)(f2), NS-MEL-163(f1)(f2), NS-MEL-163A(f1)(f2), NS-QUA-003(f1)(f2), NS-QUA-006(f1)(f2), NS-XYX-002(f1)(f2) Series, OMEGA 600(f1)(f2) Series[*r]</b>											
	90-265ac	47-63	0	57	60	600	3	1950	-	0	0
<b>MML600DD Series, OMEGA 600DD Series</b>											
	90-265ac	47-63	0	57	100	600	3	1950	-	0	0
<b>MML800PFC(f1)(f2) Series, NS-ESK-001(f1)(f2) Series, OMEGA 800PFC(f1)(f2) Series[*r]</b>											
	90-265ac	47-63	0	57	100	800	3	1950	-	0	0
<b>Odyssey RA-ODYS-#</b>											
	100-240 nom/ 90-264 maxac	50-60	0	57dc	180	1950	-	60950-1	-	-	-
				-12dc	6	-	-				
<b>Odyssey SA-ODYS-#</b>											
	100-240 nom/ 90-264 maxac	50-60	0	57dc	60	650	-	60950-1	-	-	-
				-12dc	2	-	-				
<b>OMEGA 1000(f1)(f2) Series, OMS1000 Series(f1)(f2) Series[*r]</b>											
	85-265ac	47-63	0	48	200	1000	3	1950	-	0	-
<b>OMEGA 1500(f1)(f2) Series, OMM1500(f1)(f2) Series[*r]</b>											
	85-265ac	47-63	0	57	200	1500	3	1950	-	0	-
<b>PA-AIRT(v4) Series[*r]</b>											
	33-63dc	-	4	12.25	0.85	10.5	3	1950	-	0	1
<b>PA-PRO-004</b>											
	100-240ac	47-63	0	48	11.97	575	3	1950	15B	0	0
<b>PA-TEG-001[*r]</b>											
	85-265ac	47-63	0	25	17.5	486	3	1950	-	0	0
				5	5	-	3				
<b>PA-TEG-002[*r]</b>											
	85/ 265ac	47/63	0	25	20	525	3	1950	-	0	0
				5	5	-	3				
<b>PA-TEG-003[*r]</b>											
	100-240ac	47-63	0	24dc	38	1000	3	1950	-	0	0



				12	8	-	3				
				-12	2	-	3				
				24	2	-	3				
<b>SC150U-031212R5T(f5), U150407A(f5)[*r]</b>											
	100-240ac	50-60	0	3.3	30	-	3	1950	20B	2	1
				12	8	-	3				
				-12	2	-	3				
				5.2	2.5	-	3				
<b>SC150U-050312(f5), U150307B(f5)[*r]</b>											
	100-240ac	50-60	0	5	22	-	3	1950	20B	2	1
				3.3	12	-	3				
				12	4	-	3				
<b>SC150U-051212R(f5), U150307D(f5)</b>											
	100-240ac	50-60	0	5	22	-	3	1950	20B	2	1
				12	8	-	3				
				-12	2	-	3				
<b>SC150U-051212R24(f5), U150407F(f5)[*r]</b>											
	100-240ac	50-60	0	5	22	-	3	1950	20B	2	1
				12	8	-	3				
				-12	2	-	3				
				24	2	-	3				
<b>SC150U-051212R48(f5), U150407G(f5)[*r]</b>											
	100-240ac	50-60	0	5	22	-	3	1950	20B	2	1
				12	8	-	3				
				-12	2	-	3				
				48	1	-	3				
<b>SC150U-051212R5T(f5), U150407B(f5)[*r]</b>											
	100-240ac	50-60	0	5	22	-	3	1950	20B	2	1
				12	8	-	3				
				-12	2	-	3				
				5.2	2.5	-	3				
<b>SC150U-240512R12(f5), U150407H(f5)[*r]</b>											

	100-240ac	50-60	0	24	5	-	3	1950	20B	2	1
				5	10	-	3				
				12	2	-	3				
				-12	2	-	3				

**SC150U-24125L16(f5), U150407J(f5)[\*r]**

	100-240ac	50-60	0	24	5	-	3	1950	20B	2	1
				12	8	-	3				
				5.2	5	-	3				
				16	1.6	-	3				

**SC150U-480512R12(f5), U150407I(f5)[\*r]**

	100-240ac	50-60	0	48	2.5	-	3	1950	20B	2	1
				5	10	-	3				
				12	2	-	3				
				-12	2	-	3				

**SX20 SERIES**

	-	-	-	-	-	-	-	-	-	-	-
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**UX20-24S03**

	18-36dc	-	2,3,4	3.63dc	5.5	18	2,3,4	60950-1	-	0	-
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**UX20-24S05**

	18-36dc	-	2,3,4	5.5dc	4	20	2,3,4	60950-1	-	0	-
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**UX20-48S03**

	36-75dc	-	2,3,4	3.63dc	5.5	18	2,3,4	60950-1	-	0	-
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**UX20-48S05**

	36-75dc	-	2,3,4	5.5dc	4	20	2,3,4	60950-1	-	0	-
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**UX40-48S03**

	36-75dc	-	2,3,4	3.63dc	12	40	2,3,4	60950-1	-	0	-
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**V4 or Vega 450 or Vega Smart or Vega Smart Plus (f1)(f2)(f3)(f6)(f7)**

	100-240 nom/ 90-264 maxac	50-60	0	57	60	450	-	1950	-	-	-
				-12	2	-	-				

**V6 or Vega 650 or Vega Smart or Vega Smart Plus (f1)(f2)(f3)(f6)(f7)**

	100-240 nom/ 90-264	50-60	0	57	60	650	-	1950	-	-	-
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	maxac										
				-12	2	-	-				
<b>V9 or Vega 950 or Vega Smart or Vega Smart Plus (f1)(f2)(f3)(f6)(f7)[*r]</b>											
	100-240 nom/ 90-264 maxac	50/60	0	57	60	900	-	1950	-	-	-
<b>Vega DC Series (f1)(f2)(f3)</b>											
	34-75dc	-	2,3,4	57	60	650	-	60950-1	-	0	0
				-12	2	-	-				
<b>X10, ,X15, ,X20 SERIES</b>											
	-	-	-	-	-	-	-	-	-	-	-

[\*r] - Output values are rated.

(a) - Input Voltage 3-5.5.

(b) - Input Voltage 5-13.

(f1) - Output ratings shown are the maximum rating for the entire series; ratings for individual models will vary

(f2) - Suffixes represent input/output options, including number of outputs provided and output ratings

(f3) - Output VA value is the total of all outputs

(f5) - Forced air/convection cooled output current designation: 150 W rating with 30 CFM fan forced air cooling; 90 W rating with convection cooling

(f6) - Complementary Recognized as Component Power Supplies, Medical and Dental (QQHM2, -8) and Component Power Supplies, Specialty (QQIJ2, -8)

(f7) - Also evaluated to UL 3101-1/UL 2601-1

(f8) - Multiple output ratings

(x) - Where x represents output voltage between 0V1 and 12 (the V is used as a decimal point).

Marking: Company name and model designation.

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# QQGQ2.GuideInfo

## Power Supplies, Information Technology Equipment Including Business Equipment - Component

### [Power Supplies - Component] Power Supplies, Information Technology Equipment Including Electrical Business Equipment - 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 (NWGQ).

**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 Categories	Code
Branch circuit power	0
NEC Class 2	1
Isolated extra low voltage (ELV)*	2
Isolated safety extra low voltage (SELV)*	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
NEC Class 1	0
NEC 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 UL 60950 and UL 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.

<b>GC Categories</b>	<b>Code</b>
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 (**QQFU2**).

### **ADDITIONAL INFORMATION**

For additional information, see Power Supplies (**QQAQ2**).

### **REQUIREMENTS**

The basic standards currently used to investigate products in this category are UL 60950 or UL 60950-1, "Safety of Information Technology Equipment."

### **UL MARKING**

Products Recognized under UL's Component Program are identified by significant markings consisting of the manufacturer's identification and catalog, model or other product designation which correspond with the marking specified in UL's published records. Only those components which actually bear the "Marking" shown in the individual Recognitions should be considered as being covered under the Component Program.

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

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## QQAQ2.GuideInfo Power Supplies - Component

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### Power Supplies - Component

These recognitions cover the following products:

Power Supplies for use in Electronic Data Processing Equipment

Power Supplies for use in Electrostatic Air Cleaning Equipment

Gas Tube Sign Power Supplies

General Purpose Power Supplies

Power Supplies for use in Information Technology Equipment, Including

Electrical Business Equipment

Power Supplies for use in Medical and Dental Equipment

Power Supplies for use in Office Appliances and Business Equipment

Specialty Power Supplies

Telephone Power Supplies

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.

Power supplies evaluated in accordance with IEC publications are indicated in this directory under Power Supplies Evaluated in Accordance with IEC Publications, Guide QQKV2.

These categories do not include power supplies intended as components of fire protection or burglary protective signaling systems.

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. Absence of ratings and condition of acceptability codes from an individual recognition indicates this information is contained in the UL Recognition report for the product.

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 - Amps (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, branch protection	@B
Specified current rating, time delay fuse	@T
Specified current rating, not branch protection	@
<b>Note:</b> (@) - 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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