Coutant Lambda Limited

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DECLARATION OF CONFORMITY FOR THE VEGA 450 SERIES POWER SUPPLIES

We, Coutant Lambda Limited, of Kingsley Avenue, Ilfracombe, Devon, EX34 8ES declare under our sole responsibility that the Vega 450 Series of Power Supplies as detailed on the attached Product Covered Sheet comply with the provisions of the following European directives:

73/23/EEC **Low Voltage Directive as amended by 93/68/EEC.**

Assurance of conformance of the described product with the provisions of the stated EC-Directives is given through compliance with the following standards:

Electrical safety (LVD) **EN60 950:1992/A11:1997**

Name of Coutant Lambda Authorised Signatory: **A. Rawicz-Szczerbo**

Signature of Authorised Signatory:

Position of Authorised Signatory: **Managing Director**

Date: 31/7/01

Place (*where signed*): **Ilfracombe, Devon, England**

PRODUCT COVERED SHEET FOR VEGA 450 SERIES

Vega 450 models as described below:

Unit Configuration Code:

a) V4 or Vega 450

b) followed by: F, R, Q or P

where F = Standard fan, forward airflow
R = Standard fan, reverse air
Q = Quiet fan, forward airflow
P = Quiet fan, reverse air

c) optionally followed by: F or S

where F = Fast-on or quick connect input terminals
S = Screw input terminals

e) followed by: S, M, L, R, or T

where S = Standard Leakage (Class B Filter)
M = Medium Leakage
L = Low Leakage
R = Reduced Leakage
T = Tiny Leakage

f) optionally followed by: E or F

where E = AC fail with PSU & fan enable and 5V aux supply
F = AC fail with PSU & fan inhibit and 5V aux supply

Modules:

B@, C@, D@, E@, H@/@ or L@

where the letter represents a module and @ is a number between 1 and 5, which represents the number of turns on the transformer secondary. By reference to the following table, this in turn defines the permitted voltage range of the module. Blanking plates may be fitted in place of modules. @ may optionally be followed by the letter L or H, where L and H indicate the low or high output voltage variants of the module.

or Z#

where # is a number between 1 and 99. This code represents any two of the above modules that have had their outputs paralleled together. The number # is a module reference number and does not represent the number of turns.

or BB@, CC@, DD@, EE@, HH@/@ or LL@

where @ is a number between 1 and 5, which represents the number of turns on the transformer secondary. For HH@/@ the code represents one H module that has had its two outputs connected in series. For all other variants this code represents two identical modules, selected from those listed above, that have had their outputs connected in series. If the total voltage of a seriesed pair is set to greater than 57V then all of the PSU outputs must be treated as hazardous.

Module Options:

N, P or R

where N = Inhibit, module good and remote sense
P = Parallel with current share
R = Remote sense (twin output modules only)

ELECTRICAL & THERMAL RATINGS:

Output modules:

Module	Output Voltage	Rated Current	Power	Occupied Slots	Secondary Turns	Ampere Turns
B1L	1.8 - 3.8V	20A	76W	1	1	20
B1H	3.9 - 5.5V	20A	110W	1	1	20
B2	5 - 9V	25A	225W	1	2	50
B3	9.1 - 16.2V	12A	195W	1	3	36
B4	16.3 - 21.5V	10A	215W	1	4	40
B5	21.6 - 31V	6A	186W	1	5	30
C1	1.8 - 4.1V	35A	144W	1	1	35
C3	9.1 - 16.2V	18A	292W	1	3	54
C5	21.6 - 31V	10A	310W	1	5	50
D1L	1.8 - 3.8	50A	190W	1.5	1	50
D1H	3.9 - 5.5	50A	275W	1.5	1	50
D2	3.8 - 9V	45A	405W	1.5	2	90
D3	8 - 16.5V	24A	396W	1.5	3	72
D4	14 - 21.5V	18A	387W	1.5	4	72
D5	21 - 28V	15A	420W	1.5	5	75
E1	1.8 - 3.8V	60A	228W	2	1	60
E2	3.8 - 8V	60A	480W	2	2	120
E3L	8 - 13.9V	40A	556W	2	3	120
E3H	14 - 15V	36A	540W	2	3	108
E4	14 - 19.9V	30A	597W	2	4	120
E5L	20 - 24V	27A	648W	2	5	135
E5H	24 - 28V	25A	650W	2	5	125
H1L/1L	1.8-3.8/1.8-3.8V	10A/8A	38W/31W	1	1/1	10/8
H1L/1H	1.8-3.8/3.9-5.5V	10A/8A	38W/44W	1	1/1	10/8
H1H/1L	3.9-5.5 /1.8-3.8V	10A/8A	55W/31W	1	1/1	10/8
H1H/1H	3.9-5.5 /3.9-5.5V	10A/8A	55W/44W	1	1/1	10/8
H1L/2	1.8-3.8/5-9V	10A/6A	38W/54W	1	1/2	10/12
H1H/2	3.9-5.5/5-9V	10A/6A	55W/54W	1	1/2	10/12
H1L/3	1.8-3.8/9.1-16.2V	10A/6A	38W/98W	1	1/3	10/18
H1H/3	3.9-5.5/9.1-16.2V	10A/5A	55W/81W	1	1/3	10/15
H1L/4	1.8-3.8/16.3-25V	10A/4A	38W/100W	1	1/4	10/16
H1H/4	3.9-5.5/16.3-25V	10A/4A	55W/100W	1	1/4	10/16
H2/1L	5.6-9/1.8-3.8V	10A/8A	90W/31W	1	2/1	20/8
H2/1H	5.6-9/3.9-5.5V	10A/8A	90W/44W	1	2/1	20/8
H2/2	5.6-9/5.6-9V	10A/6A	90W/54W	1	2/2	20/12
H2/3	5.6-9/9.1-16.2V	10A/5A	90W/81W	1	2/3	20/15
H2/4	5.6-9/16.3-25V	10A/4A	90W/100W	1	2/4	20/16
H3/1L	9.1-16.2/1.8-3.8V	10A/8A	162W/31W	1	3/1	30/8
H3/1H	9.1-16.2/3.9-5.5V	10A/8A	162W/44W	1	3/1	30/8
H3/2	9.1-16.2/5.6-9V	10A/6A	162W/54W	1	3/2	30/12
H3/3	9.1-16.2/9.1-16.2V	10A/5A	162W/81W	1	3/3	30/15
H3/4	9.1-16.2/16.3-25V	10A/4A	162W/100W	1	3/4	30/16
H5/1L	16.2-31/1.8-3.8V	5A/8A	155W/31W	1	5/1	25/8
H5/1H	16.2-31/3.9-5.5V	5A/8A	155W/44W	1	5/1	25/8
H5/2	16.2-31/5.6-9V	5A/6A	155W/54W	1	5/2	25/12
H5/3	16.2-31/9.1-16.2V	5A/5A	155W/81W	1	5/3	25/15
H5/4	16.2-31/16.3-25V	5A/4A	155W/100W	1	5/4	25/16
L1	4.2 - 5.5V	35A	193W	1	1	35

Additional module limitations:

E2 module fitted in slots 4/5 is limited to 55A.

For PSUs with three D modules fitted:
D1L & D1H in slots 2/3 is limited to 42A and in slots 4/5 is limited to 47A
D2 in slots 2/3 is limited to 40A

The above limitations apply to the individual modules from which a series or paralleled pair is made.

Ratings :

Input voltage: 100-240 V ac nom., 90-264V ac max., 47-63 Hz, 8.5 A rms max.

Permitted orientations: Horizontal with chassis lowest, on either side or vertical with the airflow upwards.

Cooling Option	Max Ambient	Dual Width Modules Fitted	Max Power	Max AT (total)	Max AT in regions (note 1)	Module Current Rating
F	50	No	450	180	n/a	100%
		Yes	450	180	180	100%
R	45	No	450	180	n/a	100%
		Yes	450	180	158	90%
	50	No	440	176	n/a	100%
		Yes	420	180	158	90%
Q	50	No	450	180	n/a	100%
		Yes	450	180	140	100%
P	40	No	440	176	n/a	100%
		Yes	450	180	152	85%
	45	No	400	160	n/a	100%
		Yes	420	180	152	85%
	50	No	350	140	n/a	100%
		Yes	370	180	143	85%

n/a = not applicable

Note 1
PSUs with dual width modules have two regions. The Ampere Turns limitation given above applies to both of the regions. The regions are as follows:

For PSUs with one dual width module:
Region A: modules fitted in slots 1, 2, 3 and 4
Region B: modules fitted in slots 2, 3, 4 and 5

For PSUs with two dual width modules:
Region A: modules fitted in slots 1, 2 and 3
Region B: modules fitted in slots 2, 3, 4 and 5

Ampere Turns (AT) is the sum of (output amps x secondary turns)

Customer airflow (no fan) is not permitted