

SERIES: VSUU-120C-D **DESCRIPTION: AC-DC POWER SUPPLY**

FEATURES

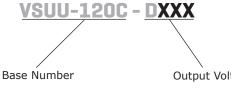
- universal input (90 ~ 264 Vac)
- up to 120 W continuous power
- active power factor correction
- IEC/EN/UL 62368 certified
- over voltage, over current, short circuit protection



MODEL		output voltage		tput rent	output power	ripple and noise	efficiency
		(Vdc)	min (A)	max (A)	max (W)	max (mVp-p)	typ (%)
VSUU-120C-D512	Vo1 Vo2	5.0 12.0	1.5 0.8	15.0 6.0	120	50 120	77
VSUU-120C-D524A	Vo1 Vo2	5.0 24.0	1.5 0.4	15.0 3.5	120	50 240	80

PART NUMBER KEY

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Output Voltage

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at 100 Vac, full load at 240 Vac, full load			1.75 0.72	A A
inrush current	at 100 Vac, 25°C, full load, cold start at 240 Vac, 25°C, full load, cold start			37 88	A A
power factor	full load at 240 Vac	0.95		1.0	

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	full load at 100 ~ 120 Vac			1	%
load regulation	at 230 Vac, 10 ~ 90% load			5	%
temperature coefficient	all output models, 100 ~ 240 Vac			± 0.04	%/°C
transient response	full load to half load at 110 Vac			4	ms
start-up	full load at 100 ~ 240 Vac			3	S
hold-up	full load at 100 Vac	16			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection		112		132	%
over current protection	auto recovery	110		150	%
short circuit protection	auto recovery				

SAFETY & COMPLIANCE

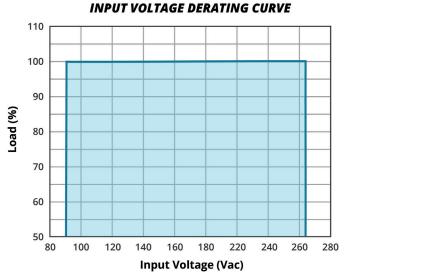
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output	4,242			Vdc
isolation voltage	input to earth ground	2,121			Vdc
safety approvals	certified to 62368: IEC/EN/UL UKCA				
	CISPR-32/EN 55032:2012/AC:2013 Class B				
EMI/EMC	EN 61000-3-2:2014				
	EN 61000-3-3:2013				
leakage current	full load at 240 Vac			0.75	mA
RoHS compliant	yes				

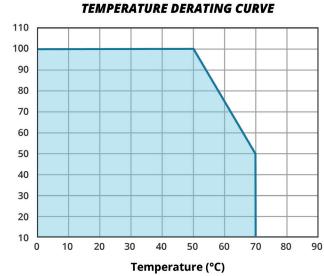
ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	0		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	0		95	%
storage humidity		0		95	%

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DERATING CURVES





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MECHANICAL DRAWING

units: mm[inches] tolerance: ±0.5mm

PIN

Mode	el no.	39.2±0.5 81.6±0.5 [3.21±0.02] [1.54±0.02] #6-32(MOUNTING HOLES)X3	
VSUU-120C-285	VSUU-120C-5XX		
N/C	V2	127.0±1.0 [5.00±0.02] 99.1±0.5 [3.90±0.02] 14.0±0.5 6.35±0.5 6.35±0.5 101.6±0.5 [4.50±0.02] 114.25±0.5 [4.50±0.02] 114.25±0.5 [4.50±0.02] 114.25±0.5 [4.50±0.02]	
N/C	V2		
V1	V1		
СОМ	СОМ		
СОМ	СОМ	8.1±0.5 65.3±0.5 [2.57±0.02] 30.02±0.5 [1.18±0.02] PITCH=3.96mm 16.9±1.0 [3.02±0.5] [1.18±0.02]	
СОМ	СОМ	$\frac{16.9\pm1.0}{46-32(MOUNTING HOLES)X4}$	
V3	N/C		
СОМ	СОМ		
СОМ	СОМ		
no connect	no connect		

Note:

1. Input connector mates with Molex housing 09-52-4054 and Molex 2478 series crimp terminal.

2. Output connector mates with Molex housing 09-52-4134 and Molex 2478 series crimp terminal.

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REVISION HISTORY

rev.	description	date
1.0	initial release	12/14/2020
1.01	mechanical drawing updated	04/20/2021
1.02	mechanical drawing updated	08/27/2021
1.03	derating curves updated	02/02/2022
1.04	UKCA added to specification	02/24/2022

The revision history provided is for informational purposes only and is believed to be accurate.



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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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