

Excellent Integrated System Limited

Stocking Distributor

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[CUI Inc.](#)
[VSUU-120-D512](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



date 08/16/2012

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

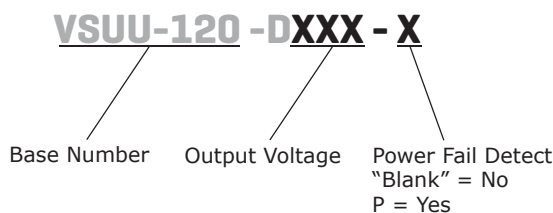
FEATURES

- up to 120 W continuous power
- industry standard 3" x 5" footprint
- universal input (90-260 Vac / 130-370 Vdc)
- dual output
- active power correction
- internal EMI filter
- no minimum load required
- UL/cUL and TUV safety approvals
- class I
- efficiency 80%
- input surge current, over voltage, over load, and over current protections



MODEL		output voltage	output current	output power	ripple and noise	efficiency
		(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VSUU-120-D305	Vo1	3.3	15	79.5	66	80
	Vo2	5	6	79.5	50	80
VSUU-120-D312	Vo1	3.3	15	120	66	80
	Vo2	12	6	120	120	80
VSUU-120-D512	Vo1	5	15	120	50	80
	Vo2	12	6	120	120	80
VSUU-120-D515	Vo1	5	15	120	50	80
	Vo2	15	6	120	150	80
VSUU-120-D524A	Vo1	5	15	120	50	80
	Vo2	24	3.5	120	240	80
VSUU-120-D524B	Vo1	5	15	120	50	80
	Vo2	-24	2	120	-240	80
VSUU-120-D285	Vo1	28	3.92	120	280	80
	Vo2	5	2	120	50	80

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90 130		260 370	Vac Vdc
frequency		47		63	Hz
current	at 115 Vac, full load at 230 Vac, full load			1.7 1.0	A A
inrush current	at 115 Vac, 25°C, full load, cold start at 230 Vac, 25°C, full load, cold start		12 26	15 30	A A
power factor	full load at 90 ~ 260 Vac	0.95	0.97	1.0	

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	full load		0.5	1	%
load regulation	at 230 Vac		3	5	%
temperature coefficient	all output		± 0.04		%/°C
transient response	full load to half load at 100 Vac			4	ms
start-up	full load at 100 Vac	0.3	1	2	s
hold-up	full load at 110 Vac	16			ms

PROTECTIONS

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

SAFETY & COMPLIANCE

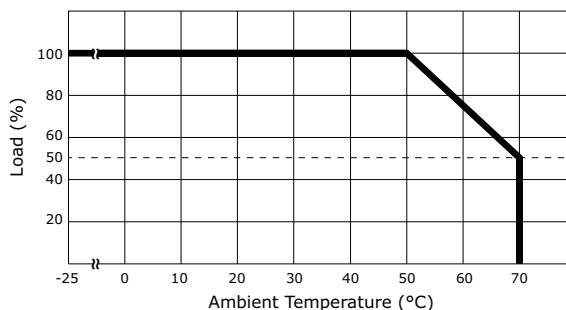
parameter	conditions/description	min	typ	max	units
isolation voltage	primary to secondary primary to earth ground	4,242 2,121			Vdc Vdc
isolation resistance	test voltage of 500 Vdc	50			MΩ
safety approvals	UL 60950-1 2nd edition, EN 60950-1 2nd edition				
EMI/EMC	CISPR 22 class B, FCC part-15 class B				
leakage current	full load at 240 Vac		0.4	0.75	mA
RoHS compliant	yes				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	5		95	%
storage humidity		5		95	%

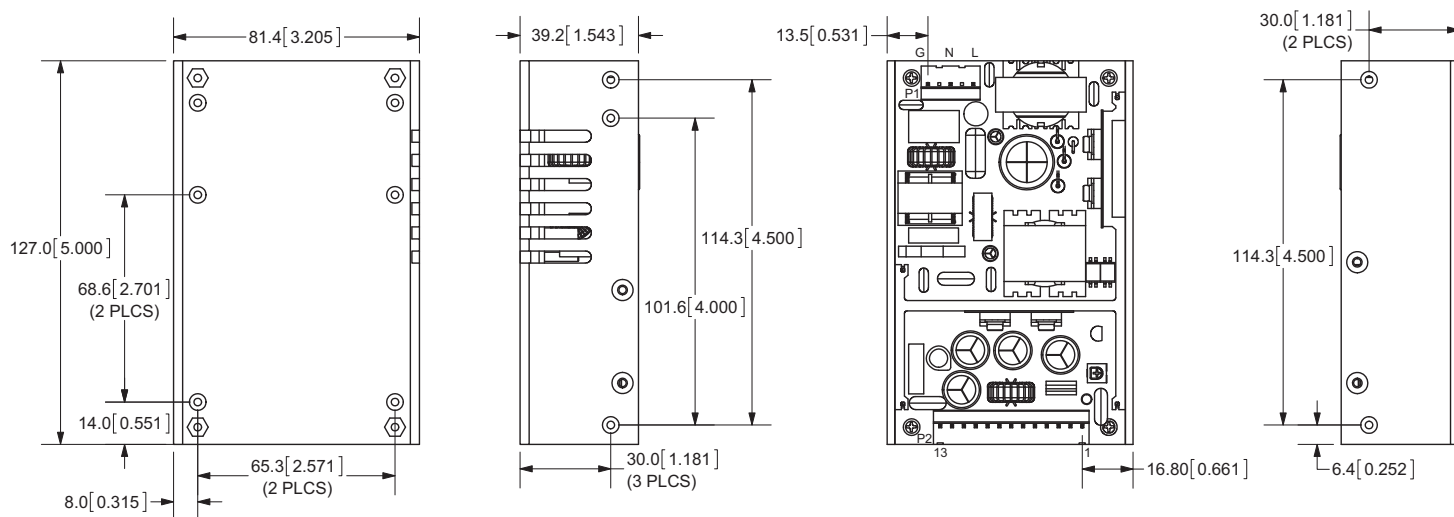
DERATING CURVES

output power vs. ambient temperature



MECHANICAL DRAWING

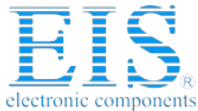
units: mm[inches]
tolerance: ± 0.5 mm



- note:
1. Weight: 330~380 g (approx.)
 2. Input connector mates with Molex housing 09-50-3051 and Molex 2478 or 2578 series crimp terminal.
 3. Output connector mates with Molex housing 09-50-3131 and Molex 2478 or 2578 series crimp terminal.

CN2													
Model No.	1	2	3	4	5	6	7	8	9	10	11	12	13
VSUU-120-D524B	n/c	n/c	V1	V1	V1	V1	com	com	com	V2	com	com	n/c
VSUU-120-D285	n/c	n/c	V1	V1	V1	V1	com	com	com	V2	com	com	n/c
VSUU-120-DXXX	V2	V2	V1	V1	V1	V1	com	com	com	n/c	com	com	n/c

*pin 13 for optional
power fail detect



REVISION HISTORY

rev.	description	date
1.0	initial release	11/19/2010
1.01	new template applied	12/19/2011
1.02	V-Infinity branding removed	08/16/2012

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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