

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









date 02/07/2013

page 1 of 3

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

FEATURES

- up to 120 W continuous power
- industry standard 3" x 5" footprint
- II-Frame
- universal input (90-260 Vac / 130-370 Vdc)
- single output from 3.3 to 48 V
- 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
	range (Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VSUU-120-3.3	3~5	22	100	66	80
VSUU-120-5	5~6	22	110	50	80
VSUU-120-7.5	6~9	19.16	115	75	80
VSUU-120-9	9~11	13.33	120	90	80
VSUU-120-12	11~13	10.9	120	120	80
VSUU-120-15	13~16	9.23	120	150	80
VSUU-120-18	16~21	7.5	120	180	80
VSUU-120-24	21~27	5.71	120	240	80
VSUU-120-30	27~33	4.44	120	300	80
VSUU-120-36	33~40	3.63	120	360	80
VSUU-120-48	40~50	3	120	480	80

PART NUMBER KEY

WSUU-120 - XX - X

Base Number Output Voltage Power Fail Detect "Blank" = No P = Yes

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 ~ 264 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 ty	p max	units
over voltage protection		112	132	%
over current protection		110	150	%

SAFETY & COMPLIANCE

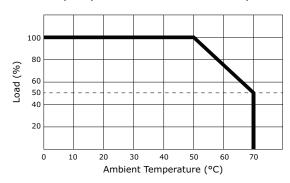
parameter	conditions/description	min	typ	max	units
isolation voltage	primary to secondary primary to earth ground	4,242 2,121			Vdc Vdc
isolation resistance	test voltage of 500 Vdc	50			МΩ
safety approvals	UL/cUL, TUV-Baurart, CE, CISPR-22 clas	s B, FCC part 15 class B,	СВ		
EMI/EMC	CISPR 22 class B, 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	%

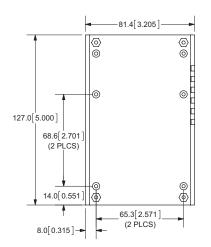
DERATING CURVES

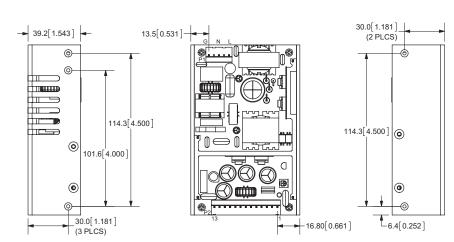
output power vs. ambient temperature



MECHANICAL DRAWING

units: mm[inches] tolerance: ±0.5mm





3	V1		
4	V1		
5	V1		
6	V1		
7	com		
8	com		
9	com		
10	com		
11	com		
12	com		
13	n/c		
13 for ontional			

CN₂

V1

V1

1

2

*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	08/22/2012
1.03	updated derating curve	02/07/2013

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



Headquarters 20050 SW 112th Ave. Tualatin, OR 97062 800.275.4899

Fax 503.612.2383 cui.com techsupport@cui.com

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

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.