SERIES: VSBU-120C | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

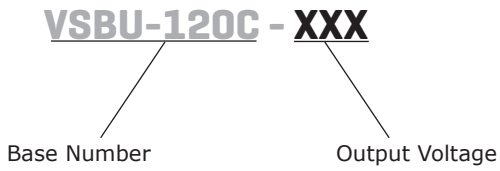
- universal input (90 ~ 264 Vac)
- up to 120 W continuous power
- industry standard 3" x 5" footprint
- active power factor correction
- IEC/EN/UL 62368 certified
- over voltage, over current, short circuit protection



MODEL	output voltage[1]	output current	output power	ripple and noise	efficiency
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VSBU-120C-5	5	22.0	110	60	70
VSBU-120C-12	12	10.0	120	130	75
VSBU-120C-15	15	8.0	120	150	78
VSBU-120C-24	24	5.0	120	200	82
VSBU-120C-30	30	4.0	120	250	82
VSBU-120C-36	36	3.33	120	250	82
VSBU-120C-48	48	2.5	120	300	82

Note: 1. Factory adjustable.

PART NUMBER KEY



Please read our datasheet & drawing disclaimer here.

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 correction	at 240 Vac, full load	0.95		1.0	

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	full load			1	%
load regulation	at 230 Vac, 10 ~ 90% load			5	%
temperature coefficient	all output models, full load, 100 ~ 240 Vac	-0.04		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				

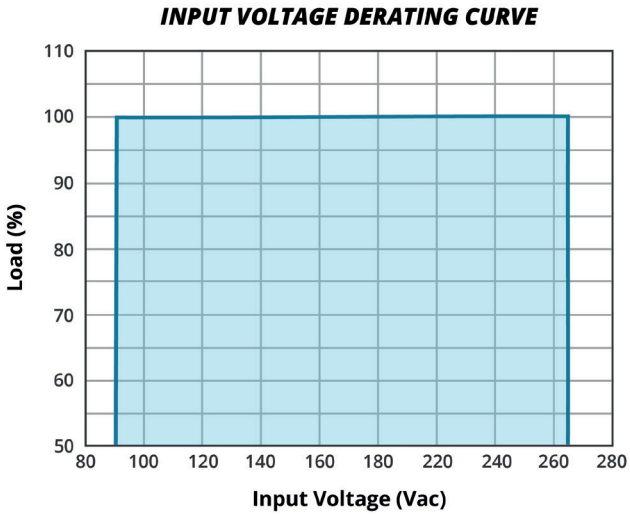
SAFETY & COMPLIANCE

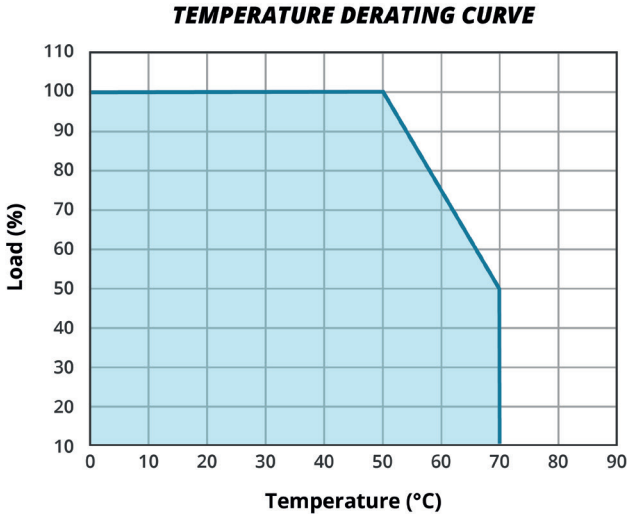
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output input to earth ground	4,242 2,121			Vdc Vdc
safety approvals	certified to 62368: IEC/EN/UL UKCA				
EMI/EMC	CISPR-32/EN 55032:2012/AC:2013 Class B EN 61000-3-2:2014 EN 61000-3-3:2013				
leakage current	full load at 240 Vac			0.75	mA
RoHS compliant	yes				
MTBF	as per MIL-HDSK-217F, 25°C	100,000			hrs

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	%

DERATING CURVES

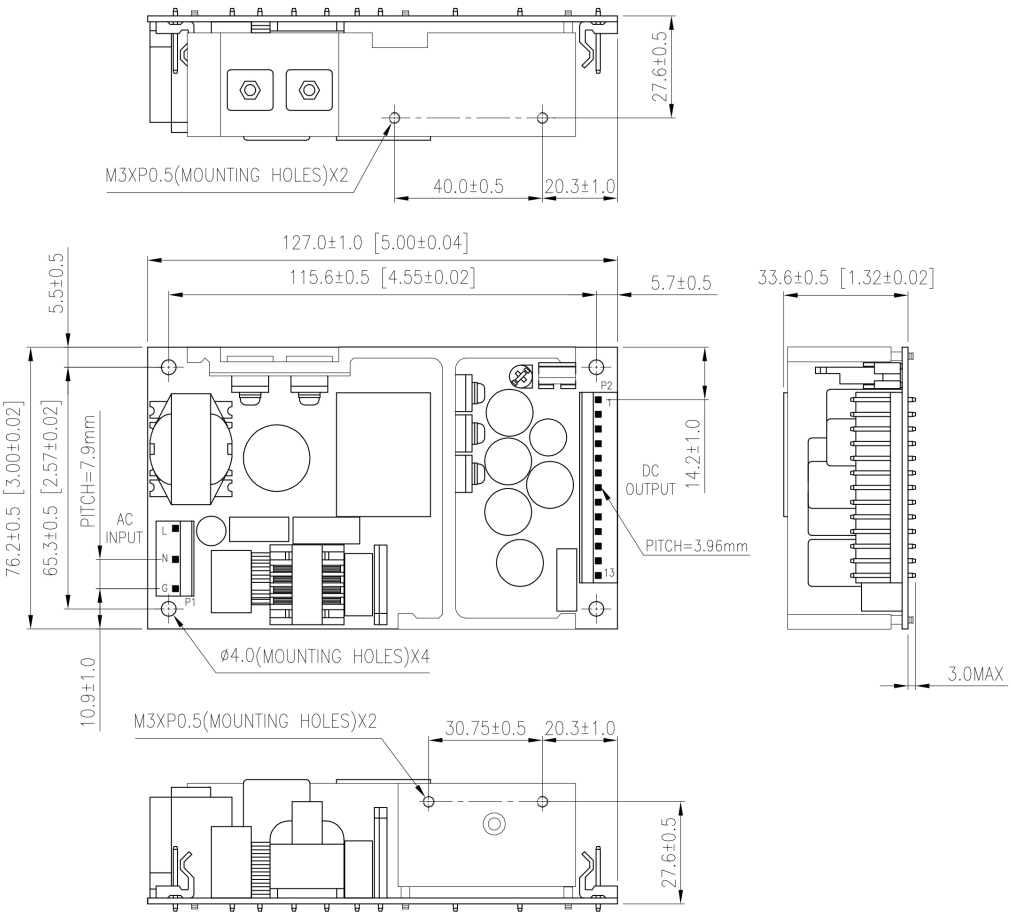




MECHANICAL DRAWING

units: mm[inches]
tolerance: ±0.5mm

PIN	Function
1	OUT
2	OUT
3	OUT
4	OUT
5	OUT
6	OUT
7	RTN
8	RTN
9	RTN
10	RTN
11	RTN
12	RTN
13	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.

REVISION HISTORY

rev.	description	date
1.0	initial release	12/08/2020
1.01	mechanical drawing updated	08/16/2021
1.02	derating curves updated	02/07/2022
1.03	UKCA added to specification	02/23/2022

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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