CUI INC
a bel group

SERIES: VSBU-150C | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

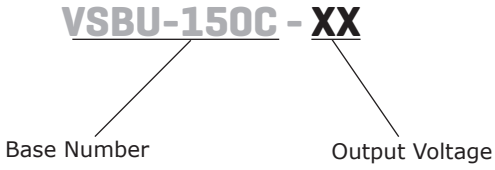
- up to 150 W continuous power
- active power factor correction
- IEC/EN/UL 62368 certified
- over voltage, over current, short circuit protection
- class B emissions



MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise max (mVp-p)	efficiency typ (%)
VSBU-150C-24	24	6.25	150	200	86

PART NUMBER KEY



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			2.0 0.8	A A
inrush current	at 100 Vac, 25°C, full load, cold start at 240 Vac, 25°C, full load, cold start			40 100	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, 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				

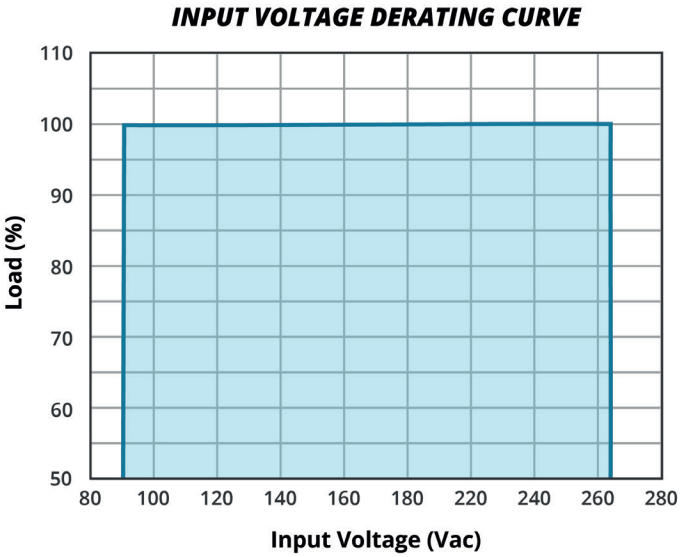
SAFETY & COMPLIANCE

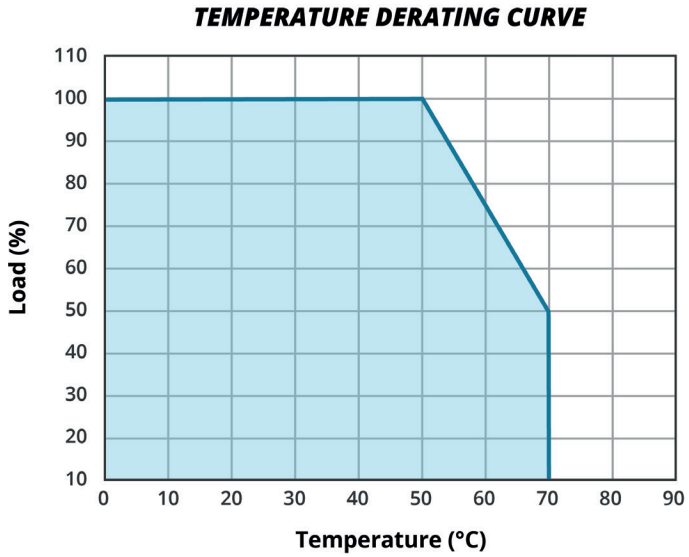
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output input to earth ground	4,242 2,121			Vdc Vdc
safety approvals	certified to 62368: IEC/EN/UL				
EMI/EMC	CISPR-32/EN 55032:2012/AC:2013 Class B				
leakage current	full load at 240 Vac			0.75	mA
MTBF	as per MIL-HDBK-217F,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

DERATING CURVES

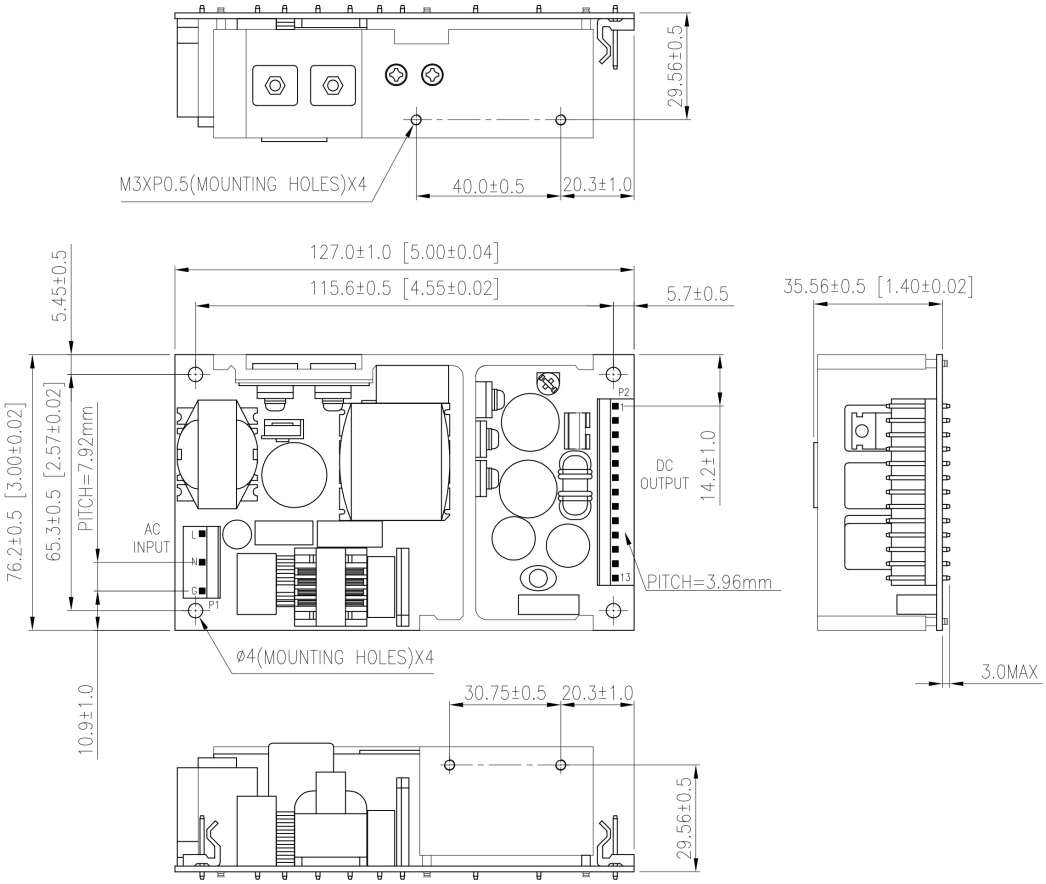




MECHANICAL DRAWING

units: mm[inches]
tolerance: ±0.5mm

PIN	FUNCTION
1	V1
2	V1
3	V1
4	V1
5	V1
6	V1
7	COM
8	COM
9	COM
10	COM
11	COM
12	COM
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	12/10/2020
1.01	TUV mark added	07/22/2021
1.02	mechanical drawing updated	08/16/2021
1.03	derating curves updated	02/02/2022

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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