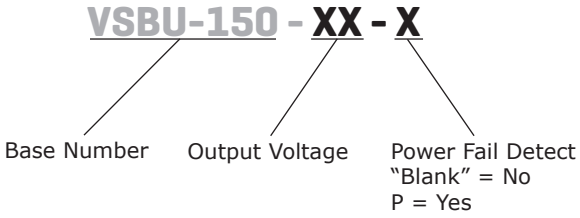
SERIES: VSBU-150 | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 150 W combined power
- open frame
- active power factor correction
- class I insulation
- output voltage available from 9 to 48 V dc
- over voltage protection, input surge current protection, over load protection
- 88% efficiency

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise max (mVp-p)	efficiency typ (%)
VSBU-150-9	9	16	144	90	88
VSBU-150-12	12	12.5	150	120	88
VSBU-150-15	15	10	150	150	88
VSBU-150-18	18	8.33	150	180	88
VSBU-150-24	24	6.25	150	240	88
VSBU-150-30	30	5	150	300	88
VSBU-150-36	36	4.17	150	360	88
VSBU-150-48	48	3.13	150	480	88

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at 115 Vac, full load at 230 Vac, full load			2.0 0.8	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 correction	full load at 90 ~ 240 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		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

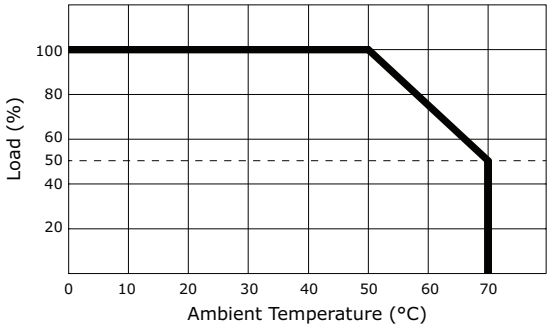
parameter	conditions/description	min	typ	max	units
isolation voltage	primary to secondary primary to earth ground	4,242 2,121			Vdc Vdc
isolation resistance	test voltage of 500 Vdc	50			MΩ
safety approvals	UL/cUL, TUV-Baurart, CE, CISPR-22 class B, FCC part 15 class B, CB				
EMI/EMC	CISPR 22 class B, FCC part-15 class B				
leakage current	full load at 240 Vac		0.4	0.75	mA
RoHS compliant	yes				
MTBF	MIL-HDSK-217F, 25°C ambient	100,000			hrs

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	%

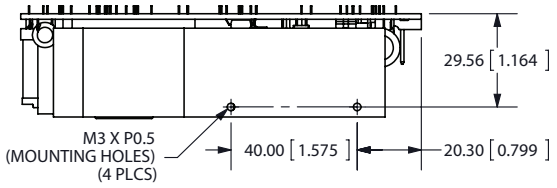
DERATING CURVES

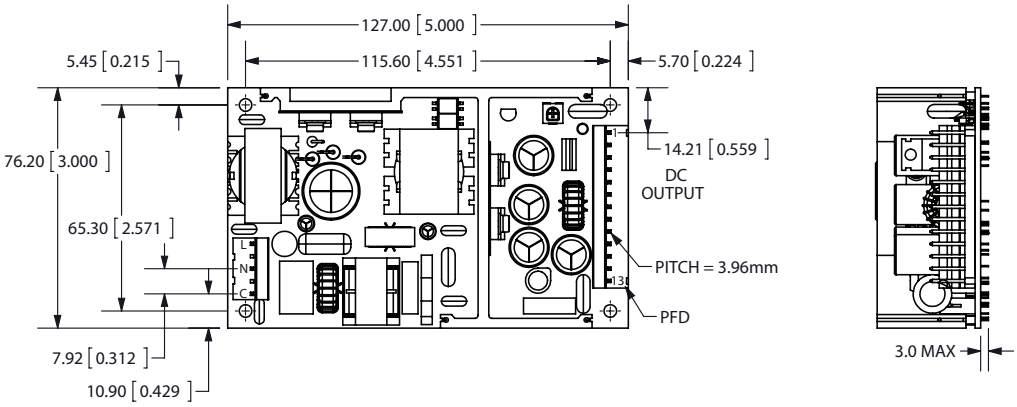
output power vs. ambient temperature

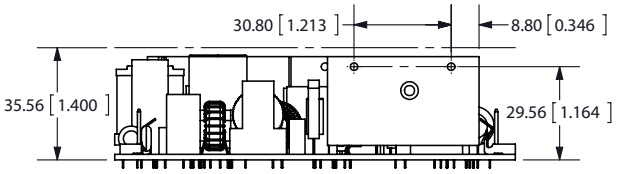


MECHANICAL DRAWING

units: mm[inches]
tolerance: ±0.5mm







CN1	
1	ac line
2	ac neutral
3	ground

note:
1. Input connector mates with Molex housing 09-50-3051 and Molex 2478 or 2578 series crimp terminal.
2. Output connector mates with Molex housing 09-50-3031 and Molex 2478 or 2578 series crimp terminal.

CN2	
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	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	08/12/2011
1.02	V-Infinity branding removed	08/16/2012
1.03	updated drawing pinouts	01/15/2013
1.04	updated derating curve	02/12/2013
1.05	updated efficiencies	07/01/2013

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

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