

SERIES: VMS-80 | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 80 W continuous power
- universal input (90~260 Vac)
- single output from 5~36 V
- no minimum load required
- over voltage, over current and short circuit protections
- full medical safety approvals
- efficiency up to 85%



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency
	(Vdc)	(A)	(W)	(mVp-p)	typ (%)
VMS-80-5	5	14.0	70	50	85
VMS-80-9	9	8.89	80	90	85
VMS-80-12	12	6.66	80	120	85
VMS-80-15	15	5.33	80	150	85
VMS-80-18	18	4.44	80	180	85
VMS-80-24	24	3.33	80	240	85
VMS-80-30	30	2.66	80	300	85
VMS-80-36	36	2.22	80	360	85

Notes: 1. Measured at 20MHz, with 0.1μF ceramic and 47μF electrolytic capacitors

PART NUMBER KEY

VMS-80 - XX

Base Number

Output Voltage

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		260	Vac
frequency		47		63	Hz
input current	at 100 Vac, full load at 240 Vac, full load			1.2 0.4	A
inrush current	at 115 Vac, full load, cool start at 25 °C at 230 Vac, full load, cool start at 25 °C		15 30	18 34	A

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	full load		±0.5	±1	%
load regulation	at 230 Vac		±3	±7	%
hold-up time	at 110 Vac, full load	16			ms

PROTECTIONS

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

SAFETY & COMPLIANCE

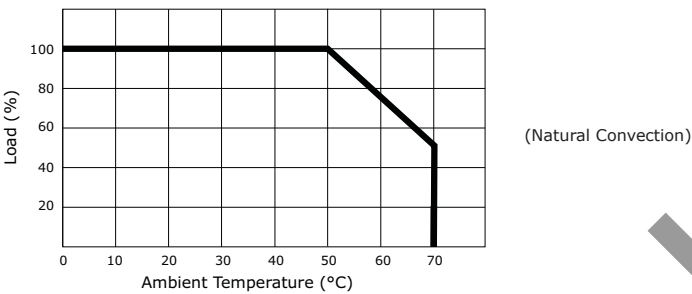
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output (for 60 seconds, 10mA) input to ground (for 60 seconds, 10mA)	5,656 2,828			Vdc
insulation resistance	at 500 Vdc	50			MΩ
safety approvals	IEC 60601-1, EN 60601-1, UL 60601-1				
EMI/EMC	EN 55011 Class B, CISPR 11 Class B, FCC Part 18 Class B, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-(2, 3, 4, 5, 6, 8, 11)				
leakage current				0.1	mA
RoHS compliant	yes				
MTBF	MIL-HDBK-217F, at 25C, nominal load	100,000			hours

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	derating from 50~70°C	0		70	°C
storage temperature		-40		85	°C
operating humidity				95	%
storage humidity				75	%

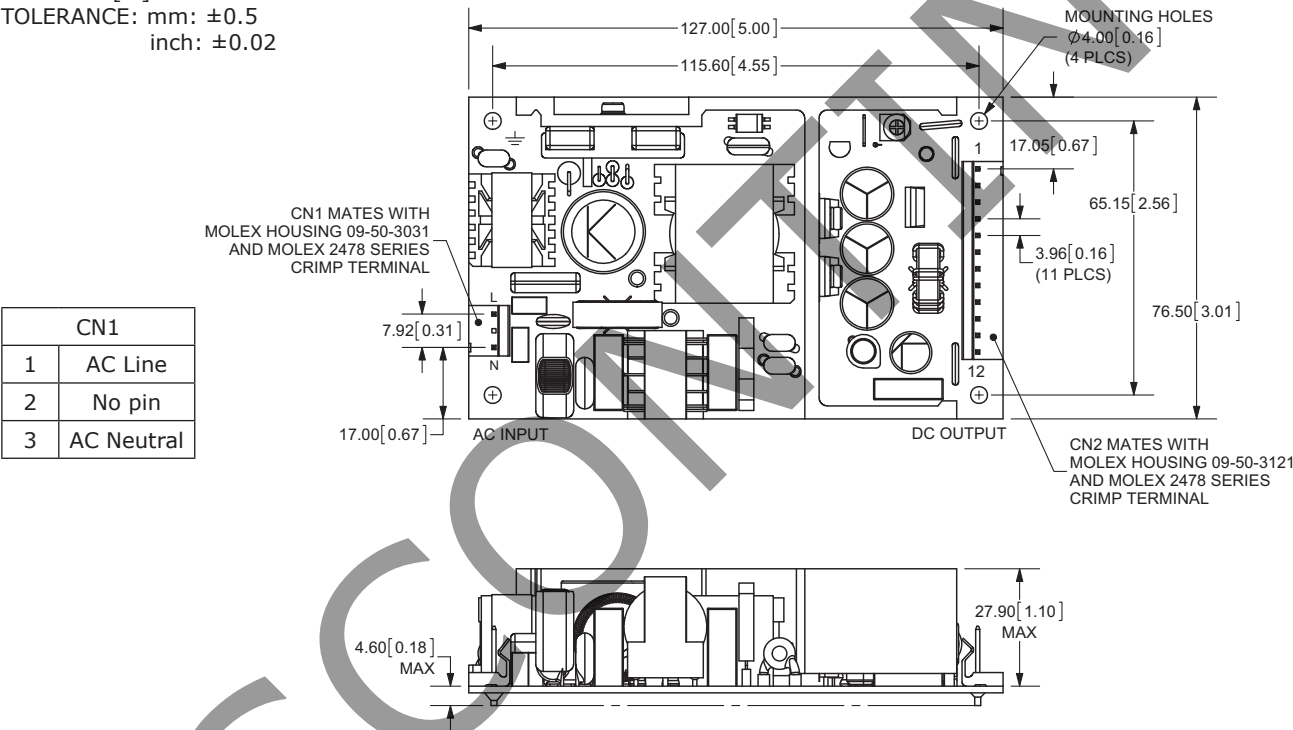
DERATING CURVES

output power vs. ambient temperature

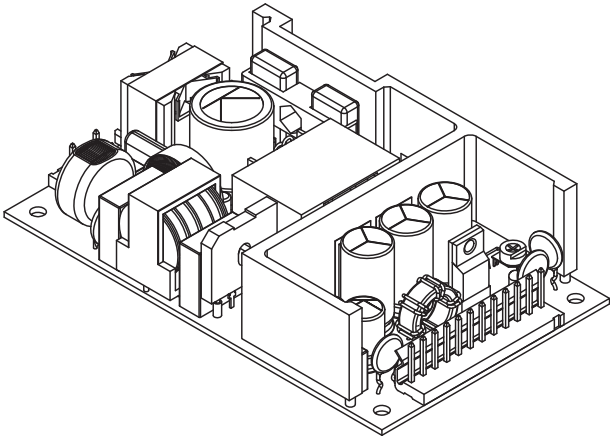


MECHANICAL DRAWING

units: mm[in]
TOLERANCE: mm: ±0.5
inch: ±0.02



CN2	
1	-Vo
2	-Vo
3	-Vo
4	-Vo
5	-Vo
6	-Vo
7	+Vo
8	+Vo
9	+Vo
10	+Vo
11	+Vo
12	+Vo



REVISION HISTORY

rev.	description	date
1.0	initial release	09/21/2011
1.01	V-Infinity branding removed	07/06/2012
1.02	safety marks updated	08/28/2012

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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