

SERIES: VMS-60 | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

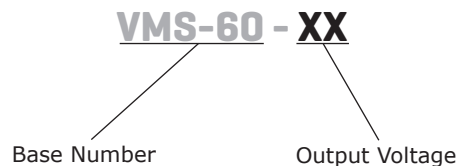
- up to 60 W continuous power
- industry standard 2" x 4" footprint
- universal input (90 ~ 264 Vac)
- single output from 5 to 48 V
- no load power < 0.5W
- over voltage and short circuit protections
- full medical safety approvals
- efficiency up to 90%



MODEL	output voltage	output current	output power	ripple and noise ¹	efficiency ²
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VMS-60-5	5	8	40	50	82
VMS-60-12	12	5	60	120	87
VMS-60-15	15	4	60	150	88
VMS-60-24	24	2.5	60	240	89
VMS-60-48	48	1.25	60	480	90

Notes: 1. Measured at 20MHz, with 0.1uF ceramic and 10uF electrolytic capacitors.
2. Measured at full load, 230 Vac, and 25°C

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
input current	at 100 Vac at 240 Vac			1.6 0.8	A A
inrush current	at 240 Vac			75	A

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	low line to high line, full load		±0.5		%
load regulation	10% to 100% full load		±1		%
hold-up time	115 Vac		16		ms
adjustability				±5	%
switching frequency			65		KHz

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	TVS component to clamp				
short circuit protection	hiccup mode, recovers automatically				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output	5,656			Vdc
safety approvals	IEC 60601-1, EN 60601-1, UL 60601-1				
EMI/EMC	EN 55011 Class B, FCC CFR 47 Part 18 EN 60601-1-2, EN 61000-3-2, EN 61000-3-3				
leakage current				0.1	mA
RoHS compliant	yes				

ENVIRONMENTAL

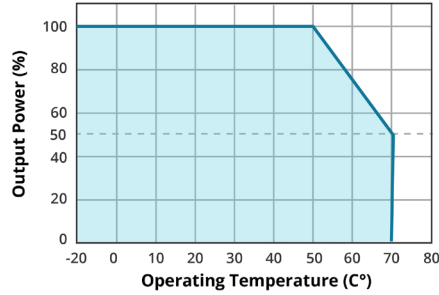
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	-20		70	°C
storage temperature		-20		85	°C
operating humidity	non-condensing			93	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	4.0 x 2.0 x 1.1 (101.6 x 50.8 x 27.94 mm)				inch
weight				125	g
cooling method	free air convection (see derating curves below)				

DERATING CURVES

TEMPERATURE DERATING CURVE

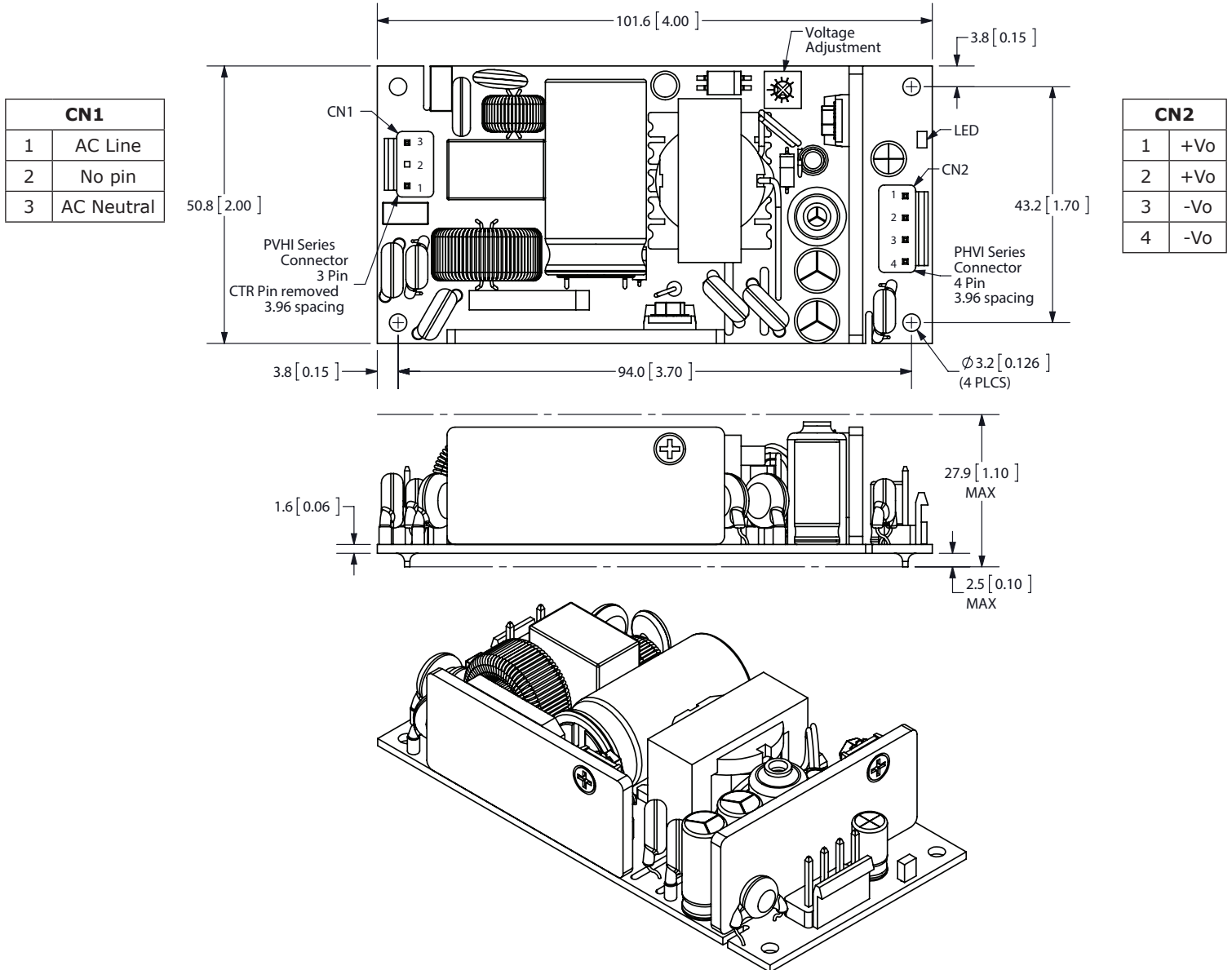


MECHANICAL DRAWING

units: mm[in]

tolerance: mm: X.X = ±0.5 ; X.XX = ±0.25

inch: X.XX ±0.02 ; X.XXX = ±0.010



Note: 1. All specifications measured at 25°C, 115/230Vac input voltage, and 75% load unless otherwise noted.

REVISION HISTORY

rev.	description	date
1.0	initial release	10/26/2011
1.01	V-Infinity branding removed	08/27/2012
1.02	updated spec	07/22/2013
1.03	company logo updated	12/21/2020
1.04	derating curve updated	05/10/2021

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



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