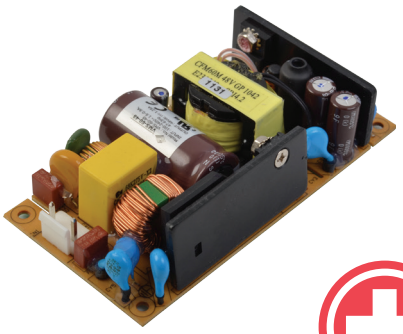
SERIES: VMS-60 | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

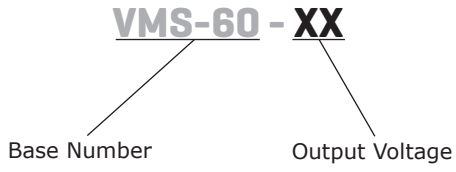
- up to 60 W continuous power
- industry standard 2" x 4" footprint
- universal input (90 ~ 264 Vac)
- single output from 5 to 48 V
- no load power < 0.5W
- over voltage and short circuit protections
- full medical safety approvals
- efficiency up to 90%



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency[2] 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

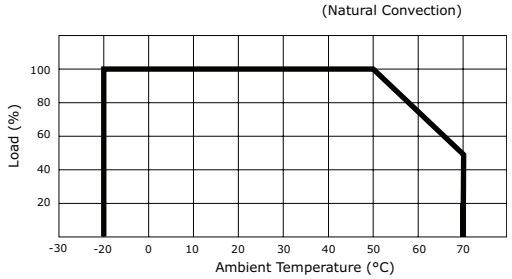
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	-20		70	°C
storage temperature		-20		85	°C
operating humidity	non-condensing			93	%

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

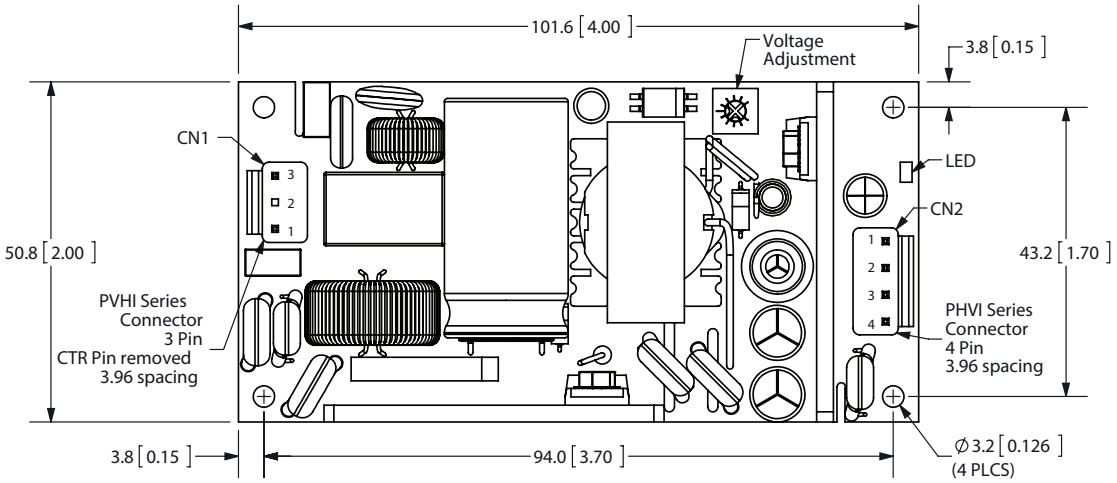
output power vs. ambient temperature

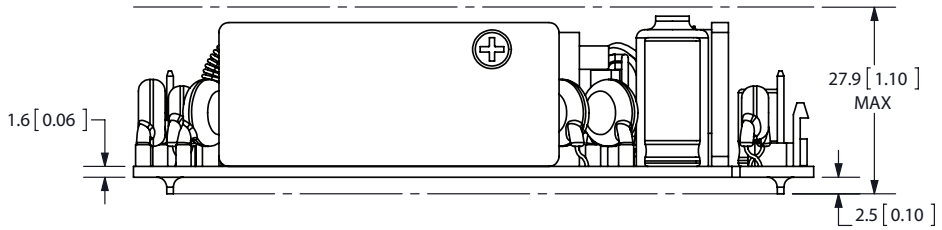


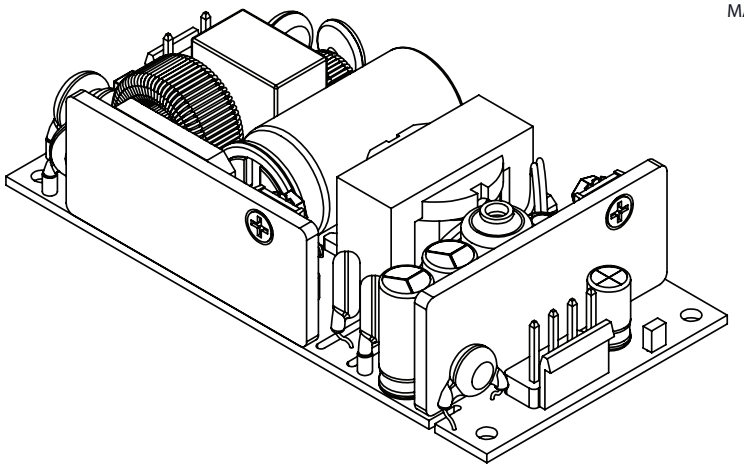
MECHANICAL DRAWING

units: mm[in]
tolerance: mm: X.X = ±0.5 ; X.XX = ±0.25
inch: X.XX ±0.02 ; X.XXX = ±0.010

CN1	
1	AC Line
2	No pin
3	AC Neutral







CN2	
1	+Vo
2	+Vo
3	-Vo
4	-Vo

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

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

CUI INC®

Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.