

SERIES: VMS-120 | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

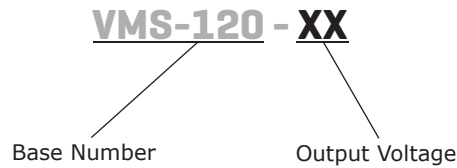
- up to 120 W continuous power
- universal input (90~260 Vac)
- single output from 5~36 V
- no minimum load required
- over voltage and short circuit protections
- full medical safety approvals
- efficiency up to 88%



MODEL	output voltage	output current	output power	ripple and noise ¹	efficiency
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VMS-120-5	5	20	120	50	88
VMS-120-9	9	13.33	120	90	88
VMS-120-12	12	10	120	120	88
VMS-120-15	15	8	120	150	88
VMS-120-18	18	6.66	120	180	88
VMS-120-24	24	5	120	240	88
VMS-120-30	30	4	120	300	88
VMS-120-36	36	3.33	120	360	88

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

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		260	Vac
frequency		47		63	Hz
input current	at 115 Vac, full load at 230 Vac, full load			1.7 0.8	A
inrush current	at 115 Vac, full load, cool start at 25 °C at 230 Vac, full load, cool start at 25 °C		48 58	54 63	A

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	full load		±0.5	±1	%
load regulation	at 230 Vac		±3	±5	%
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

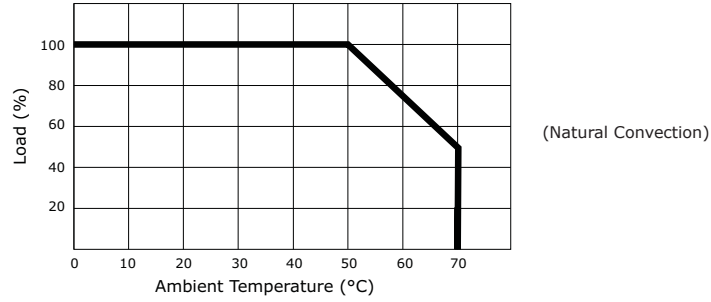
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output (for 60 seconds, 10mA): input to ground (for 60 seconds, 10mA):	5,656 2,828			Vdc
insulation resistance	at 500 Vdc	50			MΩ
safety approvals	IEC 60601-1, EN 60601-1, UL 60601-1				
EMI/EMC	EN 55011 Class B, CISPR 11 Class B, FCC Part 15 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-217-F, at 25°C, 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	%

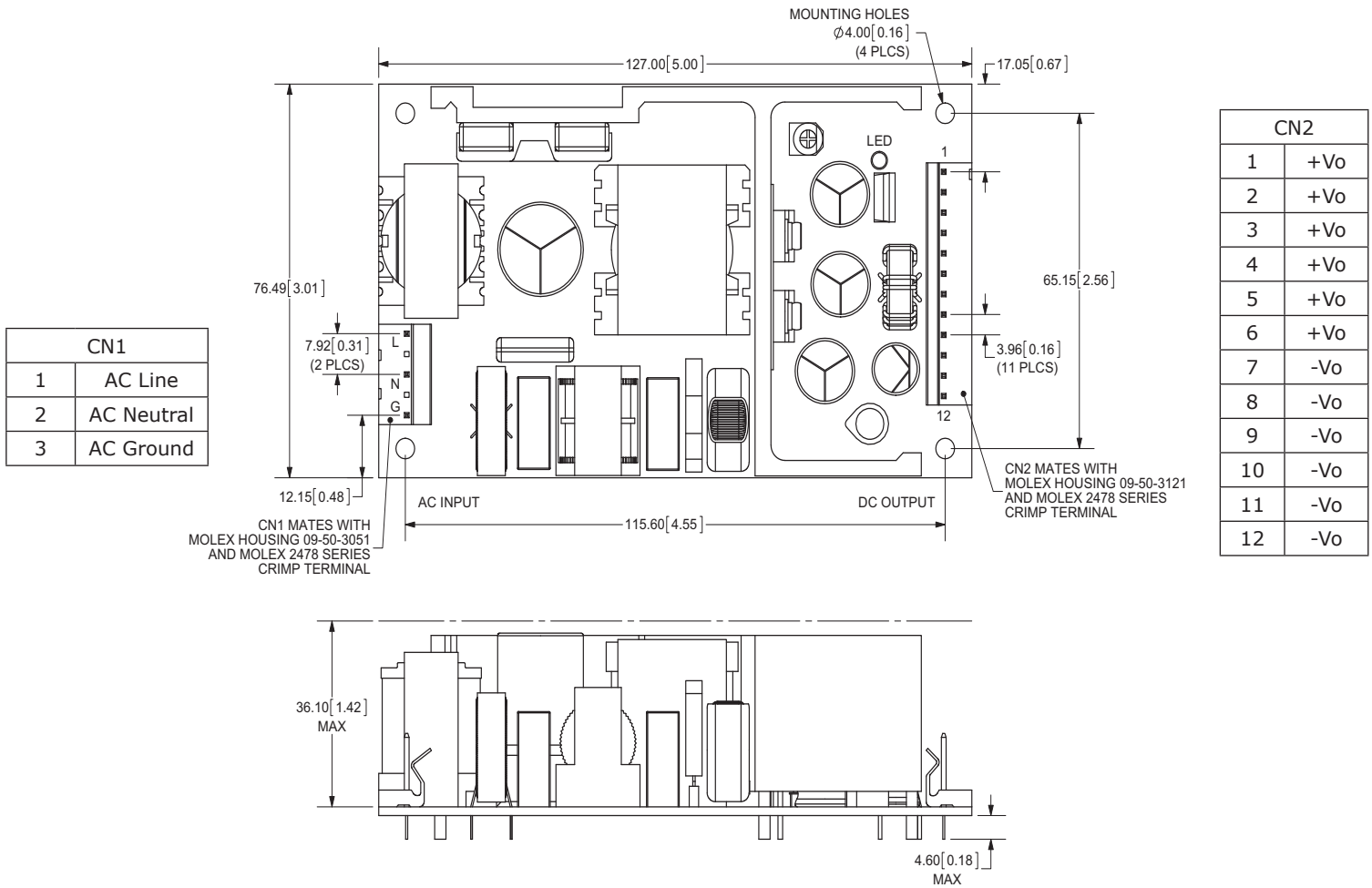
DERATING CURVES

output power vs. ambient temperature



MECHANICAL DRAWING

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



REVISION HISTORY

rev.	description	date
1.0	initial release	09/22/2011
1.01	V-Infinity branding removed	08/22/2012

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



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