



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SERIES: VMS-81 | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

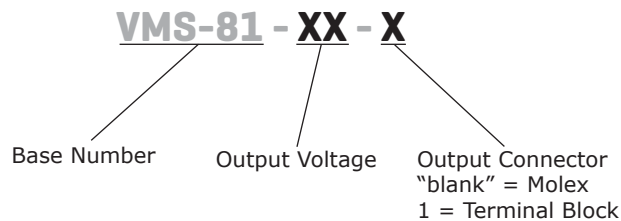
- up to 80 W continuous power
- universal input (90~260 Vac)
- single output from 5~36 V
- input to output 2MOPP
- active power factor correction
- over voltage and over current protections
- full medical safety approvals
- efficiency up to 85%



MODEL	output voltage	output current	output power	ripple and noise ¹	efficiency ²
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VMS-81-5	5	14.0	70	50	74
VMS-81-7	7	11.43	80	70	79
VMS-81-9	9	8.89	80	90	81
VMS-81-12	12	6.66	80	120	81
VMS-81-15	15	5.33	80	150	81
VMS-81-18	18	4.44	80	180	82
VMS-81-24	24	3.33	80	240	82
VMS-81-30	30	2.66	80	300	81
VMS-81-36	36	2.22	80	360	81

Notes: 1. Measured at full load, 90 Vac, 20MHz.
2. Measured at full load, 230 Vac. Up to 85% max.

PART NUMBER KEY



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 A
inrush current	at 115 Vac, full load, cool start at 25 °C at 230 Vac, full load, cool start at 25 °C			28 56	A A
leakage current	at 240 Vac/60 Hz			0.1	mA
power factor correction	at 240 Vac, full load	0.95		1	
no load power consumption	at 230 Vac			0.5	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	full load			±1	%
load regulation	at 230 Vac			±5	%
hold-up time	at 110 Vac, full load	16			ms
start-up time	at 100 Vac, full load	0.3		2	s
temperature coefficient			±0.4		%/°C

PROTECTIONS

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

SAFETY & COMPLIANCE

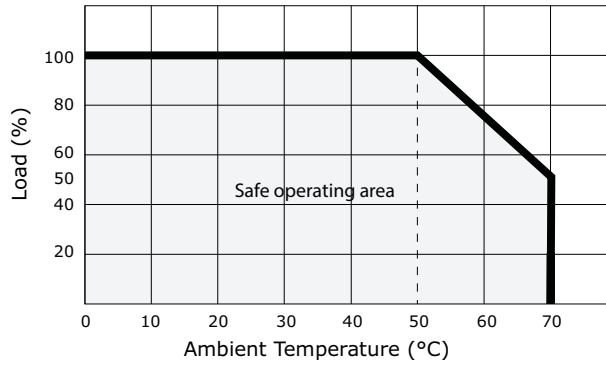
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output (for 1 minute, 10mA) input to ground (for 1 minute, 10mA)	6,653 2,121			Vdc Vdc
isolation resistance	at 500 Vdc	50			MΩ
safety approvals	IEC 60601-1, EN 60601-1, UL 60601-1				
conducted emissions	EN60601-1-2/EN55011 class B				
radiated emissions	EN60601-1-2/EN55011 class B				
harmonics	EN61000-3-2 class D				
ESD	IEC61000-4-2, contact ± 6kV/ air ± 8kV				
radiated immunity	IEC61000-4-(2, 3, 4, 5, 6, 8, 11)				
EFT/burst	IEC61000-4-4, ± 2kV				
surge	IEC61000-4-5 line to line: ± 1kV, line to earth: ± 2kV				
voltage dips & interruptions	IEC61000-3-3, IEC61000-4-11				
MTBF	MIL-HDBK-217F, at 25°C	100,000			hours
RoHS compliant	yes				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	0		70	°C
storage temperature		-40		85	°C
operating humidity		0		95	%
storage humidity		0		95	%
operating altitude				3000	m

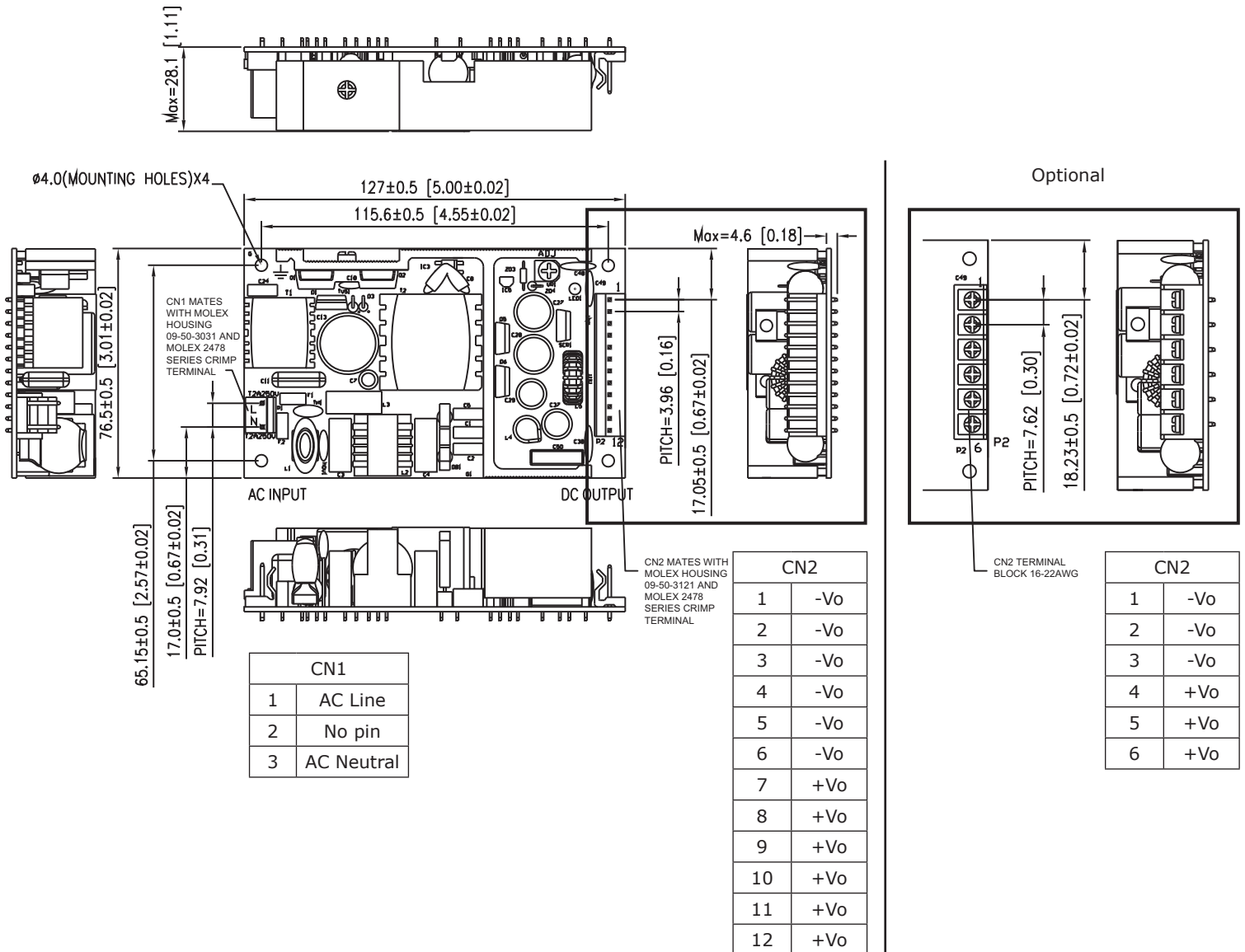
DERATING CURVES

Temperature Derating Curve



MECHANICAL DRAWING

units: mm[inches]



REVISION HISTORY

rev.	description	date
1.0	initial release	07/19/2013

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

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