



**SERIES:** VBM-100 | **DESCRIPTION:** AC-DC POWER SUPPLY

**FEATURES**

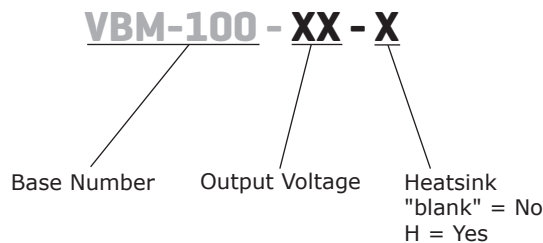
- up to 100 W isolated output
- baseplate cooling
- active PFC meets EN61000-3-2 Class D
- 17mm ultra low profile encapsulated packaging
- universal input (90~264 Vac)
- no load power consumption < 0.5 W
- single output from 12~48 Vdc
- 4,242 Vdc isolation
- wide operating temperature range (-20°C~85°C)
- over temperature, over voltage, and short circuit protections
- high efficiency up to 92%



MODEL	output voltage	output current	output power	ripple and noise <sup>1</sup>	efficiency
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VBM-100-12	12	8.4	100	120	90
VBM-100-24	24	4.2	100	240	91
VBM-100-28	28	3.6	100	280	91
VBM-100-36	36	2.8	100	360	91
VBM-100-48	48	2.1	100	480	92

Notes: 1. ripple and noise are measured at 20 MHz BW with 10µF electrolytic capacitor and 0.1µF ceramic capacitor across output

**PART NUMBER KEY**



## INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
inrush current	at 240 Vac			100	A
leakage current	at 264 Vac			3.5	mA
no load power consumption				0.5	W

## OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	high line to low line, full load			±0.5	%
load regulation	60% ±40% rated load			±1	%
voltage accuracy	set at 60% rated load and 25°C			±1	%
hold-up time			16		ms
switching frequency			130		kHz
temperature coefficient			±0.05		%/°C

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	recycle ac input to restart				
short circuit protection	hiccup mode, recovers automatically				
over temperature protection	auto recovery				

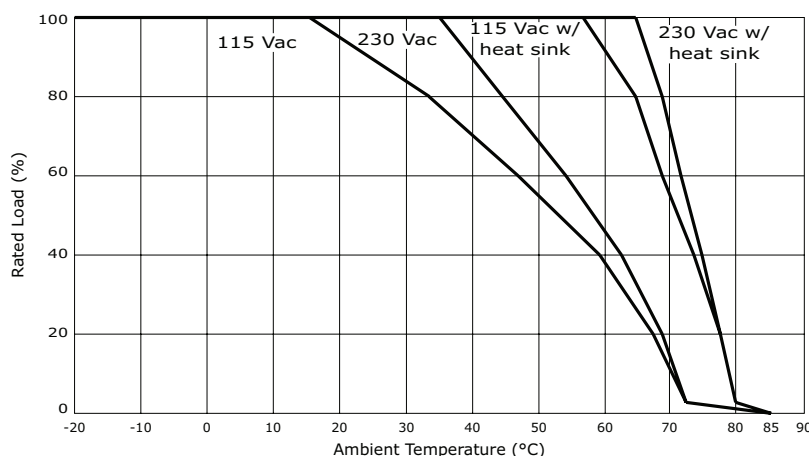
## SAFETY AND COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output	4,242			Vdc
safety approvals	IEC 60950-1, EN 60950-1, UL 60950-1				
EMI/EMC	EN 55022 Class B, FCC Part 15 Class B, EN 61000-6-(1,3), EN 61000-3-(2,3), EN 55024, EN 61204-3				
RoHS compliant	yes				

## ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-20		85	°C
storage temperature		-40		100	°C
humidity	non-condensing			93	%

## DERATING CURVES





## REVISION HISTORY

---

rev.	description	date
1.0	initial release	06/10/2013
1.01	updated derating curves	07/08/2013
1.02	added features	07/17/2013

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



**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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Switching Power Supplies](#) category:*

*Click to view products by [CUI Inc](#) manufacturer:*

Other Similar products are found below :

[70841011](#) [73-551-0005](#) [AAD600S-4-OP](#) [R22095](#) [HWS50A-5/RA](#) [KD0204](#) [9021](#) [S-15F-12](#) [LDIN100150](#) [LPM000-BBAR-01](#) [LPX17S-C](#)  
[EVS57-10R6/R](#) [FDC40-24S12](#) [FRV7000G](#) [22929](#) [CQM1IA121](#) [40370121900](#) [VI-PU22-EXX](#) [40370121910](#) [LDIN5075](#) [432703037161](#)  
[WRB01X-U](#) [LPX140-C](#) [09-160CFG](#) [70841004](#) [70841025](#) [VPX3000-CBL-DC](#) [LPM000-BBAR-05](#) [LPM000-BBAR-08](#) [LPM124-OUTA1-48](#)  
[LPM000-BBAR-07](#) [LPM109-OUTA1-10](#) [LPM616-CHAS](#) [08-30466-1055G](#) [08-30466-2175G](#) [08-30466-2125G](#) [DMB-EWG](#) [TVQF-1219-](#)  
[18S](#) [6504-226-2101](#) [CQM1IPS01](#) [MAP80-4000G](#) [LFP300F-24-TY](#) [SMP21-L20-DC24V-5A](#) [VI-MUL-ES](#) [08-30466-0065G](#) [CME240P-24](#)  
[VI-RU031-EWWX](#) [08-30466-0028G](#) [S82Y-TS01](#) [LFP300F-24-SNTY](#)