

SERIES: VHB200W | DESCRIPTION: DC-DC CONVERTER

FEATURES

- up to 200 W isolated output
- industry standard half brick package
- 4:1 input range (10~36 V, 18~75 V)
- single output from 3.3~48 V
- 1,500 V isolation
- over current, over temperature, over voltage, and short circuit protections
- remote on/off
- efficiency up to 89%



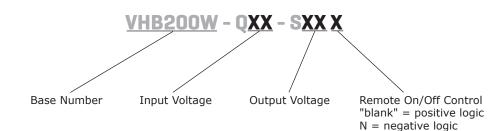


MODEL	input voltage	output voltage	output current	output power	ripple and noise ¹	efficiency
	range (Vdc)	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VHB200W-Q24-S3R3	10 ~ 36	3.3	50	165	100	87
VHB200W-Q24-S5	10 ~ 36	5	40	200	100	87
VHB200W-Q24-S12	10 ~ 36	12	16.7	200	150	86
VHB200W-Q24-S15	10 ~ 36	15	13.3	200	150	86
VHB200W-Q24-S24	10 ~ 36	24	8.3	200	240	87
VHB200W-Q24-S28	10 ~ 36	28	7.1	200	280	87
VHB200W-Q24-S48	10 ~ 36	48	4.2	200	240	86
VHB200W-Q48-S3R3	18 ~ 75	3.3	40	132	100	88
VHB200W-Q48-S5	18 ~ 75	5	40	200	100	89
VHB200W-Q48-S12	18 ~ 75	12	16.7	200	150	88
VHB200W-Q48-S15	18 ~ 75	15	13.3	200	150	88
VHB200W-Q48-S24	18 ~ 75	24	8.3	200	240	88
VHB200W-Q48-S28	18 ~ 75	28	7.1	200	280	88
VHB200W-Q48-S48	18 ~ 75	48	4.2	200	240	87

Notes: 1. ripple and noise are measured at 20 MHz BW with 10μ F tantalum capacitor and 1μ F ceramic capacitor across output

PART NUMBER KEY

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INPUT

parameter	conditions/o	lescription	min	typ	max	units
operating input voltage			10 18	24 48	36 75	Vdc Vdc
under voltage lockout	power up power down	24 V input 48 V input 24 V input		9.5 17 8.5		Vdc Vdc Vdc
positive logic remote on/off1		48 V input		16		Vdc
filter	PI type					

Module ON, >3.5 Vdc or open circuit Module OFF, <1.8 Vdc

OUTPUT

conditions/description	min	typ	max	units
measured from high line to low line			±0.2	%
measured from full load to zero load			±0.2	%
			±1.5	%
25% step load change			500	μs
		±10		%
100% load, input voltage range		250		kHz
		±0.03		%/°C
	measured from high line to low line measured from full load to zero load 25% step load change	measured from high line to low line measured from full load to zero load 25% step load change	measured from high line to low line measured from full load to zero load 25% step load change ±10 100% load, input voltage range 250	measured from high line to low line ±0.2 measured from full load to zero load ±0.2 ±1.5 ±1.5 25% step load change 500 ±10 ±10 100% load, input voltage range 250

Notes: 2. trim-up: connect a resistor between the trim pin and +Sense trim-down: connect a resistor between the trim pin and -Sense

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PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	%Vo	115		140	%
short circuit protection	continuous				
current limit	% nominal output current	110		150	%
thermal shutdown case temp.			110		°C

SAFETY AND COMPLIANCE

parameter	conditions/description	min	typ	max	units
	input to output	1,500			Vdc
isolation voltage	input to case	1,500			Vdc
	output to case	1,500			Vdc
isolation resistance		10			MΩ
isolation capacitance			1,000		pF
safety approvals	UL60950-1				
RoHS compliant	yes				

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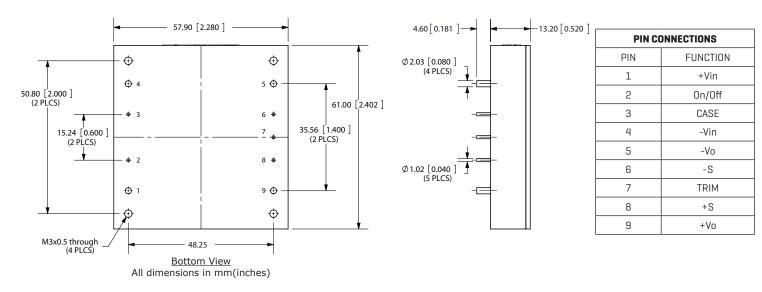
ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
case operating temperatur	re	-40		100	°C
storage temperature		-55		105	°C
humidity	non-condensing			95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	57.9 x 61.0 x 13.2 (2.28 x 2.40 x 0.52 inch)				mm
case material	aluminum baseplate with plastic case				
weight			114		g

MECHANICAL DRAWING



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REVISION HISTORY

rev.	description	date
1.0	initial release	08/08/2008
1.01	new template applied	08/05/2011
1.02	add remote on/off control to the part number key	11/23/2011
1.03	features updated	12/20/2011
1.04	misc. updates and corrections	02/14/2012
1.05	V-Infinity branding removed	09/07/2012
1.06	updated spec	04/01/2013

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



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

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