VBED10 Series DC-DC Converter

Rev. 06-2006

Features

- ·10W isolated output
- ·Efficiency to 82%
- ·Pi Input filter
- ·2:1 input range
- ·Continuous short cuicuit protection
- ·Meets EN55022 Class A, Conducted

Model Number	Input Voltage	Output Voltage	Output Current Min.	Output Current Max.	Input Current No Load	Input Current Full Load	Efficiency
VBED10-D12-S5	9-18VDC	5VDC	100mA	2000mA	30mA	1100mA	76%
VBED10-D12-S12	9-18VDC	12VDC	45mA	830mA	30mA	1065mA	78%
VBED10-D12-S15	9-18VDC	15VDC	35mA	666mA	30mA	1065mA	78%
VBED10-D12-D12	9-18VDC	±12VDC	±25mA	±415mA	40mA	1065mA	78%
VBED10-D12-D15	9-18VDC	±15VDC	±20mA	±333mA	40mA	1065mA	78%
VBED10-D12-D5	9-18VDC	±5VDC	±50mA	±1000mA	40mA	1065mA	78%
VBED10-D24-S5	18-36VDC	5VDC	100mA	2000mA	20mA	535mA	78%
VBED10-D24-S12	18-36VDC	12VDC	45mA	830mA	20mA	520mA	80%
VBED10-D24-S15	18-36VDC	15VDC	35mA	666mA	20mA	520mA	80%
VBED10-D24-D12	18-36VDC	±12VDC	±25mA	±415mA	20mA	520mA	80%
VBED10-D24-D15	18-36VDC	±15VDC	±20mA	±333mA	20mA	520mA	80%
VBED10-D24-D5	18-36VDC	±5VDC	±50mA	±1000mA	20mA	520mA	80%
VBED10-D48-S5	36-72VDC	5VDC	100mA	2000mA	10mA	260mA	80%
VBED10-D48-S12	36-72VDC	12VDC	45mA	830mA	10mA	254mA	82%
VBED10-D48-S15	36-72VDC	15VDC	35mA	666mA	10mA	254mA	82%
VBED10-D48-D12	36-72VDC	±12VDC	±25mA	±415mA	10mA	254mA	82%
VBED10-D48-D15	36-72VDC	±15VDC	±20mA	±333mA	10mA	254mA	82%
VBED10-D48-D5	36-72VDC	±5VDC	±50mA	±1000mA	10mA	254mA	82%

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V·INFINITY

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Input

Input Voltage Range	12V: 9-18V 24V: 18-36V 48V: 36-72V
Input Filter	Pi Type

Output

Voltage Accuracy	Single Output	±1.0% max.
	Dual +Output	±1.0% max.
	-Output	±1.0% max.
Voltage Balence (Dual)		±1.0%max
Transient Response:	Single, 25% Step Load Change	<500µ sec.
	Dual, FL-1/2±1% Error Band	<500µ sec.
Ripple & Noise	20MHz BW	100 mV p-p max
Temperature Coefficient		±0.02%/°C
Short Circuit Protection		continuous
Line Regulation[1]	Single/Dual output	±0.2% max.
Load Regulation[2]	Single/Dual output	±1.0% max.

General Specifications

Efficiency	see table
Isolation Voltage	500VDC min.
Isolation Resistance	10^9Ohm min.
Switching Frequency	200KHz, min.
Operating Temperature Range	-25°C to +71°C
Case Temperature	100°C max.
Storage Temperature	-40°C to +100°C
Cooling	Free air convection
EMI/RFI	Six Sided Continuous Shield
Dimensions	2x1x0.4 inches (50.8x25.4x10.2mm)
Case Material	Black coated copper with non-conductive base

NOTES:

1. Measured from high line to low line
2. Measured from full load to 1/4 load
3. A minimum load on the output is necessarry to maintain regulation

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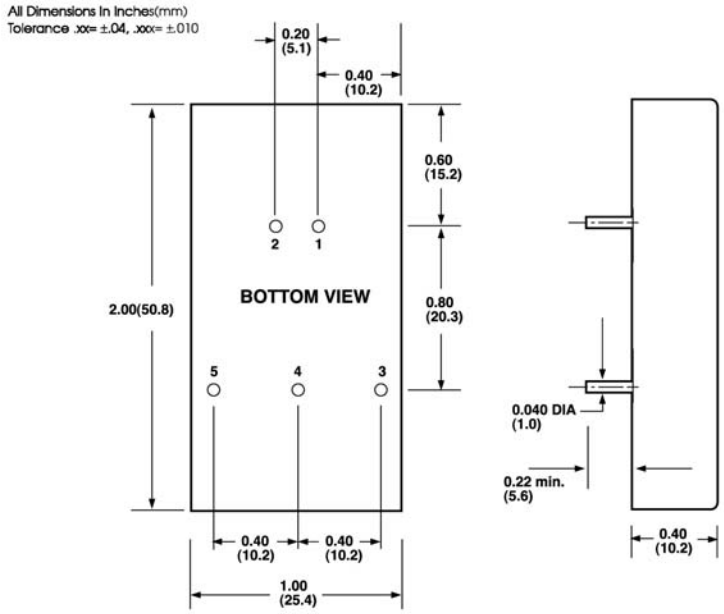

PIN CONNECTION

Pin	Function
1.	+ Input
2.	- Input
3.	+ Output
4.	Common/NP
5.	- Output

NP*-NO PIN ON SINGLE OUTPUT

All Specifications Typical At Nominal Line, Full Load and 25˚C Unless Otherwise Noted.

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