Victor Power Technologies

Global Power Supply Manufacturer

VXB15(W) Series 15 Watts

250VDC HIGHT VOLTAGE OUTPUT
2:1 & 4:1 INPUT
ISOLATED & REGULATED
DIP PACKAGE STYLE

- 2:1 Input Nominal
  - 12VDC: 9~18
  - 24VDC: 18~36
  - 28VDC: 18~36
- 4:1 Input Nominal
  - 24VDC: 15~55
  - 28VDC: 15~55

- Efficiency ≥80%
- Operating Temperature: -25°C~+55°C
- 1,500VDC Isolation
- Short Circuit Protection
- Over Current & Over Voltage Protection
- Size 2" x 1" 0.5"
- Industry Standard Pin out
- High Efficiency
- High Density
- RoHS

PRODUCT PROGRAM

Part Number	Input Voltage (VDC) Nominal	Input Voltage (VDC) Range	Output Voltage (VDC)	Output Current (mA)	Efficiency (%, Typ)	Package Style
VXB15-12S250	12	9~18	250	60	≥80	DIP
VXB15-24S250(W)	24	18~36 (15~55)	250	60	≥80	DIP
VXB15-28S250(W)	28	18~36 (15~55)	250	60	≥80	DIP

ISOLATION SPECIFICATIONS

Item	Min	Units
Isolation voltage	1500	VDC
Isolation resistance	100M	Ω
Isolation capacitance	300	pF

COMMON SPECIFICATION

Approvals and standard	IEC60950-1, UL60950-1, EN60950-1
Case material	Metal Case
Base material	Plastic Case
Potting material	Epoxy (UL94-V0)
Dimensions	50.8 X 25.4 X 12.7 mm (2 X 1 X 0.5 Inch)
Weight	26g (0.91oz)
MTBF	5 x 10^5 hrs

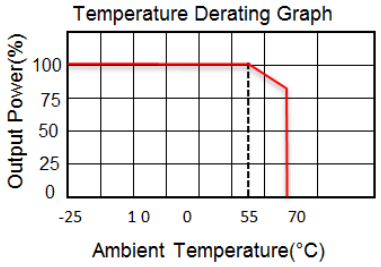
OUTPUT SPECIFICATION

Output power		15Watts
Voltage accuracy	Full load and nominal Vin	± 1%
Line regulation	Vimin≤Vi≤Vimax	± 0.2%
Load regulation	Vimin≤Vi≤Vimax	± 0.5%
Ripple and noise	20MHz bandwidth	1%
Transient overshoot	25% load step change	± 5%
Transient response recovery time	25% load step change	400uS
Over current protection	Vimin≤Vi≤Vimax	120%,max
Short circuit protection		Hiccup, automatics recovery
Switching frequency		300KHz

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range		-25ºC ~ +55ºC
Storage temperature range		-40ºC ~ +105ºC
Maximum case temperature		+85ºC
Cooling type		Natural cooling
Temperature coefficient		±0.02% / ºC, max
Relative humidity		5 ~ 90 RH%
Vibration resistance	10~55Hz	5G

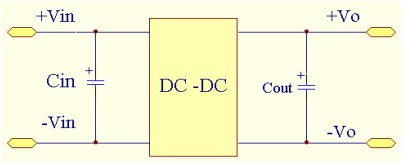
TYPICAL CHARECTERISTICS



FOOTPRINT DETAILS

PIN	1	2	3	4
SINGLE	+Vin	-Vin	-Vout	+Vout

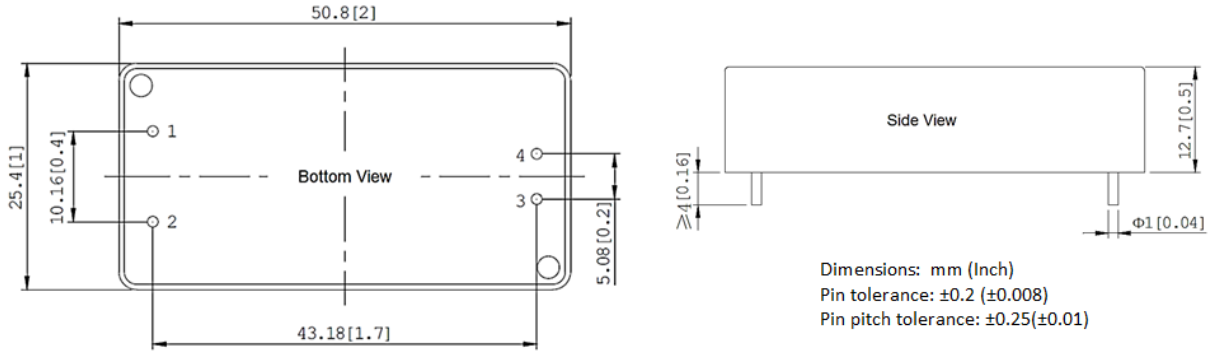
RECOMMEND CIRCUIT



1. Module plus input capacitance Cin could help to improve the electromagnetic compatibility , it is recommended Cin use 47uF-100uF electrolytic capacitor.
2. Modules plus the output capacitor Cout could help to improve the module's output ripple.
3. Cout recommend to take standard 100uf/A. The current means output current

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT

VICTOR POWER



Dimensions: mm (Inch)
Pin tolerance: ±0.2 (±0.008)
Pin pitch tolerance: ±0.25(±0.01)