



VXB20(W) Series 20 Watts

250VDC HIGH 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 $\geq 80\%$
- Operating Temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- 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		Output Voltage (VDC)	Output Current (mA)	Efficiency (% Typ)	Package Style
	Nominal	Range				
VXB20-12S250	12	9~18	250	80	≥ 80	DIP
VXB20-24S250(W)	24	18~36 (15~55)	250	80	≥ 80	DIP
VXB20-28S250(W)	28	18~36 (15~55)	250	80	≥ 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	5×10^5 hrs

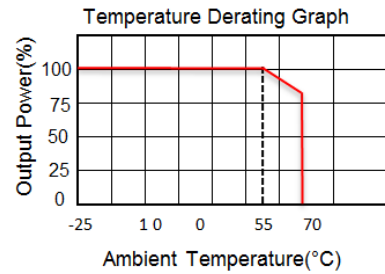
OUTPUT SPECIFICATION

Output power		20Watts
Voltage accuracy	Full load and nominal V_{in}	$\pm 1\%$
Line regulation	$V_{imin} \leq V_i \leq V_{imax}$	$\pm 0.2\%$
Load regulation	$V_{imin} \leq V_i \leq V_{imax}$	$\pm 0.5\%$
Ripple and noise	20MHz bandwidth	1%
Transient overshoot	25% load step change	$\pm 5\%$
Transient response recovery time	25% load step change	400uS
Over current protection	$V_{imin} \leq V_i \leq V_{imax}$	120%,max
Short circuit protection		Hiccup, automatic recovery
Switching frequency		300KHz

ENVIRONMENTAL SPECIFICATIONS

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

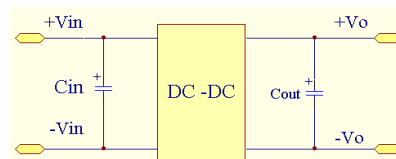
TYPICAL CHARECTERISTICS



FOOTPRINT DETAILS

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

RECOMMEND CIRCUIT



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

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT

