

Features

- 20W Isolated Output
- Efficiency to 88%
- 2:1 Input Range
- Regulated Outputs
- Continuous Short ·Circuit Protection
- Pi Input Filter



Model Number	Input Voltage	Output Voltage	Output Current		Input Current		Effic.	Case
			Min.	Max.	No Load	Full Load		
VBD20-D24-S1R8	18-36VDC	1.8VDC	0mA	6000mA	30mA	549mA	82%	B
VBD20-D24-S2R5	18-36VDC	2.5VDC	0mA	6000mA	30mA	744mA	84%	B
VBD20-D24-S3R3	18-36VDC	3.3VDC	0mA	5000mA	50mA	800mA	86%	B
VBD20-D24-S5	18-36VDC	5VDC	0mA	4000mA	55mA	958mA	87%	B
VBD20-D24-S12	18-36VDC	12VDC	0mA	1670mA	55mA	960mA	87%	B
VBD20-D24-S15	18-36VDC	15VDC	0mA	1330mA	55mA	956mA	87%	B
VBD20-D48-S1R8	36-75VDC	1.8VDC	0mA	6000mA	30mA	271mA	83%	B
VBD20-D48-S2R5	36-75VDC	2.5VDC	0mA	6000mA	30mA	368mA	85%	B
VBD20-D48-S3R3	36-75VDC	3.3VDC	0mA	5000mA	30mA	395mA	87%	B
VBD20-D48-S5	36-75VDC	5VDC	0mA	4000mA	40mA	475mA	88%	B
VBD20-D48-S12	36-75VDC	12VDC	0mA	1670mA	40mA	480mA	87%	B
VBD20-D48-S15	36-75VDC	15VDC	0mA	1330mA	40mA	478mA	87%	B

Input

Input Voltage Range	24V 48V	18-36V 36-75V
Under Voltage lockout	24Vin power up power down 48Vin power power down	17V 33V 34V 33V
Input Filter Type		PI Type
Positive Logic Remote on/off Control:		
Logic Compatibility		CMOS or Open Collector TTL
Module ON		>5.5VDC or Open Circuit
Module OFF		<1.8VDC

Output

Voltage Accuracy		±1.5% max.
Transient Response	Single 25% Step Load Change	<500µs sec.
Ripple & Noise	20MHz BW ³ ,	75mV p-p., max
Temperature Coefficient		±0.03%/°C max
Short Circuit Protection		Continuous
Line Regulation ¹		±0.2% max
Load Regulation ²		±1.0% max
Over Voltage Protection		Zener or TVS Clamp
External Trim Adj. Range		±10%

General Specifications

Efficiency	see table
Isolation Voltage	1 500VDC min.
Isolation Resistance	10 ⁸ ohms min
Switching Frequency	300KHz, Type
Operating Temperature Range	-25°C to +71°C
Case Temperature	100°C max.
Storage Temperature	-40°C to +85°C
EMI/RFI	Six sided Continuous Shield
Derating, Above 71°C	Linearly to Zero Power at + 100°C
Case Temperature	100°C max
Storage Temperature Range	-55°C to +105°C
Dimensions	2.0x1.0x0.4 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 1/10 load
3. The output noise is measured with 0.1µF ceramic capacitor
4. Suffix "S" to the model number with alternative pin configuration

PIN CONNECTION

Pin	Function
1.	+V Input
2.	-V Input
3.	+V Output
4.	Trim
5.	-V Output
6.	Remote ON/OFF

All Dimensions In Inches(mm)
Tolerance Inches .xx= ±0.04, .xxx= ±0.10
Millimeters .xx= ±1.0, .xxx= ± 0.25

