

15 Watt, ZB15 Series, DC-DC Converter (Single & Dual Output)



electronic powersolutions

- Wide 2:1 & Extra Wide 4:1 Input Ranges
- Remote on/off Control
- 1600V Input to Output Isolation
- Compact 2x1" Encapsulated Metal Case
- PCB Mounting, Option of Chassis & Screw Terminals.
- Very Competitive Prices
- High Efficiency up to 87%
- Wide Operational Temperature Range
- CE Marked and UL Listed



Specification (typical values shown)

Input Ranges.....	(2:1) 9~18, 18~36, & 36~75 Volts (4:1) 9~36 & 18~75 Volts
Outputs.....	Single or dual outputs available (see table below)
Line Regulation.....	+/-0.5%
Load Regulation.....	+/-1%
Output Ripple.....	<0.2% of Vout
Output Noise.....	<0.5% of Vout
Efficiency.....	See table for each model
Short Circuit Protection.....	Current limit, auto-recovery
Isolation Voltage.....	1600 VDC
Operating Temperature.....	-25 to +70 °C – see derating curve
Storage Temperature.....	-55 to +105 °C
Case Material.....	5 sided shielded Aluminium, non conductive base
Switching Frequency.....	300 kHz typical
MTBF.....	>800,000 hrs @ 25°C (MIL-HDBK-217F)
Warranty.....	3 Years

Models and Ratings

Model (9~18V Input)	Model (18~36V Input)	Model (36~75V Input)	Output (VDC)	Output Current	Efficiency
Single Output Models					
ZB15-12-3.3S	ZB15-24-3.3S	ZB15-48-3.3S	3.3 V	3000 mA	77% to 79%
ZB15-12-5S	ZB15-24-5S	ZB15-48-5S	5.0 V	3000 mA	80% to 83%
ZB15-12-12S	ZB15-24-12S	ZB15-48-12S	12 V	1250 mA	82% to 86%
ZB15-12-15S	ZB15-24-15S	ZB15-48-15S	15 V	1000 mA	84% to 87%
ZB15-12-24S	ZB15-24-24S	ZB15-48-24S	24 V	625 mA	84% to 87%
Dual Output Models					
ZB15-12-5D	ZB15-24-5D	ZB15-48-5D	+/-5 V	+/-1500 mA	78%
ZB15-12-12D	ZB15-24-12D	ZB15-48-12D	+/-12 V	+/-625 mA	79%
ZB15-12-15D	ZB15-24-15D	ZB15-48-15D	+/-15 V	+/-500 mA	79%
4:1 Input Versions					
Model (9~36V Input)	Model (18~75V Input)	Output (VDC)	Output Current	Efficiency	
ZB15-24F-3.3S	ZB15-48F-3.3S	3.3 V	3000 mA	70% to 71%	
ZB15-24F-5S	ZB15-48F-5S	5.0 V	3000 mA	76% to 78%	
ZB15-24F-12S	ZB15-48F-12S	12 V	1250 mA	77% to 79%	
ZB15-24F-15S	ZB15-48F-15S	15 V	1000 mA	75% to 79%	

Note : Efficiency of units are within the ranges above, each model depends on Input and Output Voltage

For mechanical data and pinout, please see next page

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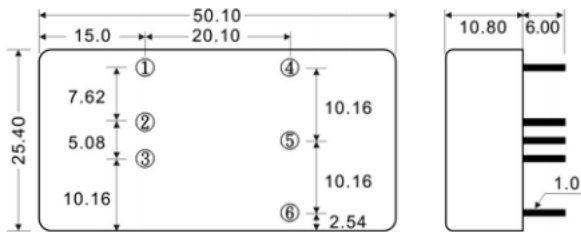
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Mechanical Details and Pin-Out

Top View



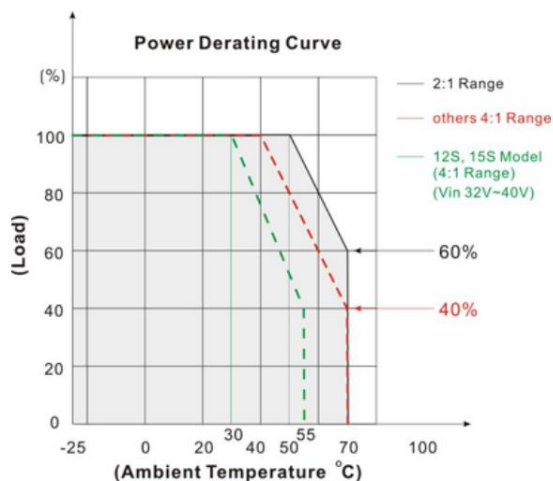
Pin	Function	
	Single O/P	Dual O/P
1	On/Off R/C	On/Off R/C
2	-V in	-V in
3	+V in	+V in
4	-V out	-V out
5	No Pin	Common
6	+V out	+V out
Pin 1 = Remote On/Off Control		

Standard units are supplied with **Remote On/Off** control pin,
 This pin need not be used for normal operation or can be removed (cropped off) if preferred.
 Leave pin 1 (CTRL) open / not connected for Output ON
 Short pin 1 (CTRL) to pin 2 -V in for Output OFF
 Or positive Logic control (with respect to pin 2 -Vin)
 4 to 6 Volts on pin 1 = Output On
 0 to 0.1 Volt on pin 1 = Output Off

Chassis mounting version with screw terminal connections.

Total size 96 x 53.9 x 18.3mm
 Please contact ALL PSU sales office for more details.

Derating Curve



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply.

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