

## 4-6 Watt, ZA05 Series, DC-DC Converter (Single & Dual Output)

- Ultra Wide 4:1 Input Range
- 4 to 6 Watts Depending On Model
- 1600 VDC Isolation
- 24 Pin Dual-in-Line Style Package
- Encapsulated Metal Case
- Very Competitive Prices
- High Efficiency up to 83%
- -25 to +100 °C Operational Temperature Range



### Specification (typical values shown)

Input Ranges.....	9~36 Volts and 18~75 Volts
Outputs.....	Single or dual outputs available (see table below)
Line Regulation.....	+/-0.5%
Load Regulation.....	+/-1% (3.3V output models are +/-3%)
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 @ full load, Derates to 100°C
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

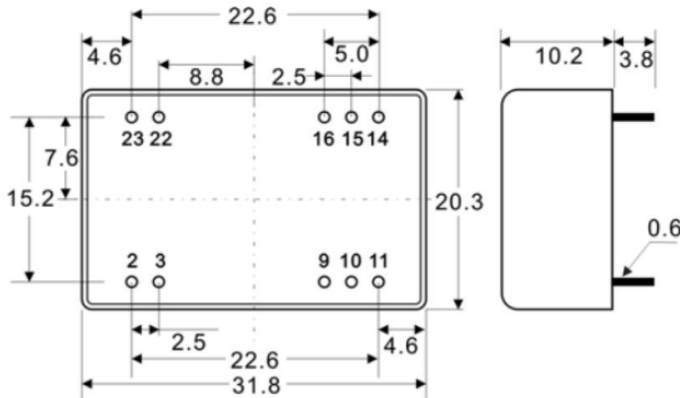
### Models and Ratings

Model (9~36V input)	Model (18-75V input)	Output (VDC)	Output Current	Efficiency
Single Output Models				
ZA05-24-3.3S-AP	ZA05-48-3.3S-AP	3.3 V	1200 mA	71%
ZA05-24-5S-AP	ZA05-48-5S-AP	5.0 V	1000 mA	75%
ZA05-24-12S-AP	ZA05-48-12S-AP	12 V	500 mA	82%
ZA05-24-15S-AP	ZA05-48-15S-AP	15 V	400 mA	79% / 82%
ZA05-24-24S-AP	ZA05-48-24S-AP	24 V	250 mA	81%
Dual Output Models				
ZA05-24-5D-AP	ZA05-48-5D-AP	+/-5 V	+/-500 mA	75% / 77%
ZA05-24-12D-AP	ZA05-48-12D-AP	+/-12 V	+/-250 mA	78% / 83%
ZA05-24-15D-AP	ZA05-48-15D-AP	+/-15 V	+/-200 mA	75% / 81%

For mechanical drawing, temperature derating and pin-out details, please see next page

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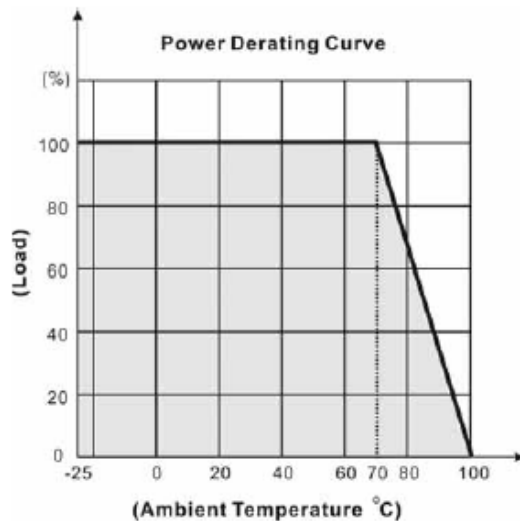
### Mechanical Details and Pin-Out Top View



Pin	Function	
	Single O/P	Dual O/P
2	-V in	-V in
3	-V in	-V in
9	N/C	Common
10	N/C	N/C
11	N/C	-V out
14	+V out	+V out
15	N/C	N/C
16	-V out	Common
22	+V in	+V in
23	+V in	+V in

N/C = Pin with no connection

### Derating Curve



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

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