

**KEY FEATURES**

- Power Module for PCB Mountable
- Low Cost but High Reliability
- 4:1 Wide Input Range
- Regulated Output
- Low Ripple and Noise
- 3-Years Product Warranty


**ELECTRICAL SPECIFICATIONS**

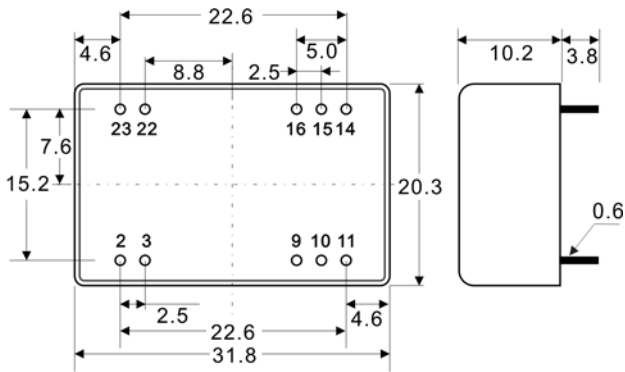
Model No.	ZA05-24-3.3S	ZA05-24-5S	ZA05-24-12S	ZA05-24-15S	ZA05-24-24S	ZA05-24-5D	ZA05-24-12D	ZA05-24-15D
Max. Output Wattage (W)	4W	5W	6W	6W	6W	5W	6W	6W
Input Voltage (V.DC.) (Note 3)	24V (9-36V)	24V (9-36V)	24V (9-36V)	24V (9-36V)	24V (9-36V)	24V (9-36V)	24V (9-36V)	24V (9-36V)
Output Voltage (V.DC.)	3.3V / 1200mA	5V / 1000mA	12V / 500mA	15V / 400mA	24V / 250mA	±5V / ±500mA	±12V / ±250mA	±15V / ±200mA
Efficiency	71%	75%	82%	79%	81%	75%	78%	75%

Model No.	ZA05-48-3.3S	ZA05-48-5S	ZA05-48-12S	ZA05-48-15S	ZA05-48-24S	ZA05-48-5D	ZA05-48-12D	ZA05-48-15D
Max. Output Wattage (W)	4W	5W	6W	6W	6W	5W	6W	6W
Input Voltage (V.DC.) (Note 3)	48V (18-75V)	48V (18-75V)	48V (18-75V)	48V (18-75V)	48V (18-75V)	48V (18-75V)	48V (18-75V)	48V (18-75V)
Output Voltage (V.DC.)	3.3V / 1200mA	5V / 1000mA	12V / 500mA	15V / 400mA	24V / 250mA	±5V / ±500mA	±12V / ±250mA	±15V / ±200mA
Efficiency	71%	75%	82%	82%	81%	77%	83%	81%

Model No.	ZA05-24-3.3S ZA05-48-3.3S	ZA05-24-5S ZA05-48-5S	ZA05-24-12S ZA05-48-12S	ZA05-24-15S ZA05-48-15S	ZA05-24-24S ZA05-48-24S	ZA05-24-5D ZA05-48-5D	ZA05-24-12D ZA05-48-12D	ZA05-24-15D ZA05-48-15D
Max Output Wattage (W)	4W	5W	6W	6W	6W	5W	6W	6W
Input	Input Filter $\pi$ type							
Output	Voltage (V.DC.)							
	Voltage Accuracy							
	Current (mA) max							
	Line Regulation (LL-HL) (typ.)							
	Load Regulation (10-100%) (typ.)							
	Ripple							
	Noise							
Protection	Switching Frequency							
	Over Power Protection							
Isolation	Short Circuit Protection							
	Voltage							
	Resistance							
Environment	Capacitance							
	Operating Temperature							
	Storage Temperature							
	Case temperature							
	Temperature Coefficient							
	Humidity							
Physical	MTBF							
	Dimension (L x W x H)							
	Case Material							
	Weight							
Cooling Method								

1. All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.
2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1 $\mu$ F & 47 $\mu$ F parallel capacitor.
3. If Input Voltage <10 VDC needs 1% Minimum Load.

**MECHANICAL DIMENSION ( Top View )**

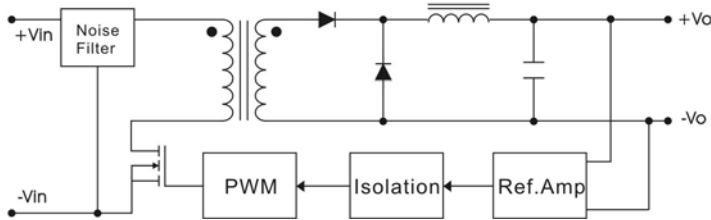


Tolerance  $\pm 0.5$  mm

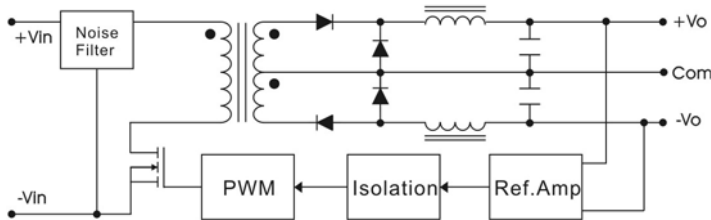
PIN#	Single	Dual
2	-VIN	-VIN
3	-VIN	-VIN
9	NC	COMMON
10	NC	NC
11	NC	-VOUT
14	+VOUT	+VOUT
15	NC	NC
16	-VOUT	COMMON
22	+VIN	+VIN
23	+VIN	+VIN

**BLOCK DIAGRAM**

**Single Output**



**Dual Output**



**DERATING**

