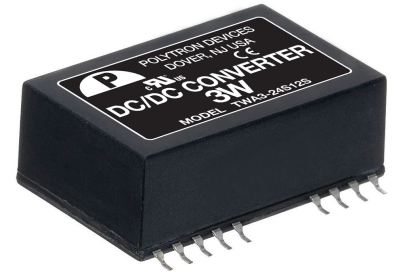




3 WATT SINGLE OUTPUT

Regulated 24-Pin DIP Package
DC/DC Converters



FEATURES

- **2:1 Wide Input Range**
- **DIP And Surface Mount Package Available**
- **500 Vdc Input/ Output Isolation**
- **Efficiency to 76% @ FL**
- **Short Circuit Protection**
- **No External Components**
- **New 3.3 Vdc Outputs**

TWA3 Series

Specifications

Typical at 25°C under full load and nominal input voltage, unless otherwise specified

INPUT

Input Voltages.....	Voltage Range
5 Vdc.....	4.5-6.0 Vdc
12 Vdc.....	9 -18 Vdc
.....	9 -36 Vdc
24 Vdc.....	18 - 36 Vdc
.....	18 - 72 Vdc
48 Vdc.....	36 - 72 Vdc

OUTPUT

Voltage Accuracy.....	±3% max.
Voltage Stability.....	±0.5% max.
Line Regulation.....	±1% max.
Load Regulation.....	±1% max.
Ripple Noise (20MHz Bw).....	0.5 - 1% p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Short Circuit Protection.....	Continuous

GENERAL

Efficiency.....	76% max. @ FL
Isolation Voltage.....	500 Vdc min.
Isolation Resistance.....	1000MOhms
Switching Frequency.....	25KHz min.

ENVIRONMENTAL

Operating Temperature Range.....	-25° to +71°C
Storage Temperature Range.....	-55° to +105°C
Derating	None
Cooling.....	Free Air Convection
Humidity.....	25-95% RH Non-Condensing

PHYSICAL

Case Material.....	Non-Conductive Black Plastic
Weight	0.5 oz. (14.3 grams)
Dimensions.....	1.25" x 0.80" x 0.50"

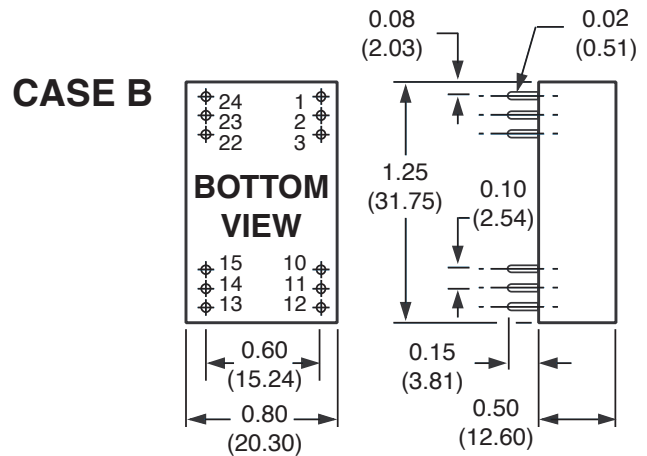
Selection Guide

	Input Voltage Nominal (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Input Current (mA)		Model Number*	Case
				No Load	Full Load		
SINGLE OUTPUT VOLTAGE	5	3.3	600	14.1	649	TWA3-5S33	B
		5	500	60	720	TWA3-5S5	B
		12	250	170	930	TWA3-5S12	B
		15	200	140	880	TWA3-5S15	B
	12	3.3	600	15.9	266	TWA3-12S33	B
		5	500	30	300	TWA3-12S5	B
		12	250	30	340	TWA3-12S12	B
		15	200	35	375	TWA3-12S15	B
	24	3.3	600	10	126	TWA3-24S33	B
		5	500	15	165	TWA3-24S5	B
		12	250	15	165	TWA3-24S12	B
	48	15	200	20	170	TWA3-24S15	B
3.3		600	3.2	61	TWA3-48S33	B	
5		500	15	80	TWA3-48S5	B	
12		250	15	85	TWA3-48S12	B	
DUAL OUTPUT VOLTAGE	5	±5	±250	140	810	TWA3-5-5	B
		±12	±125	180	900	TWA3-5-12	B
		±15	±100	180	1000	TWA3-S-15	B
	12	±5	±250	100	300	TWA3-12-5	B
		±12	±125	75	360	TWA3-12-12	B
		±15	±100	60	350	TWA3-12-15	B
	24	±5	±250	30	150	TWA3-24-5	B
		±12	±125	30	180	TWA3-24-12	B
		±15	±100	30	120	TWA3-24-15	B
	48	±5	±250	20	80	TWA3-48-5	B
		±12	±125	20	85	TWA3-48-12	B
		±15	±100	20	90	TWA3-48-15	B

* For SMD package, use suffix "S" after model number.
 For Dual Positive Output, use suffix "P" after model number.

Mechanical Specifications

I/O Connections		
Pin	SINGLE	DUAL
1	+Vin	+Vin
2	NC	-Vout
3	NC	Common
10	-Vout	Common
11	+Vout	+Vout
12	-Vin	-Vin
13	-Vin	-Vin
14	+Vout	+Vout
15	-Vout	Common
22	NC	Common
23	NC	-Vout
24	+Vin	+Vin



All Dimensions are in inches (mm)

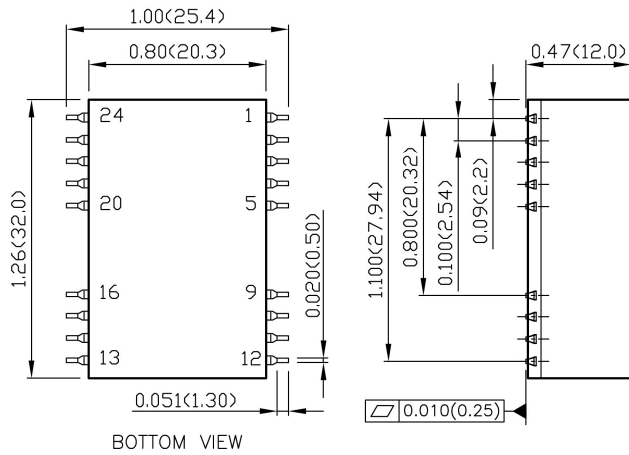


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Mechanical Specifications (continued)

SMD TYPE



SMD PIN CONNECTION

PIN	SINGLE	DUAL	DS	PIN	SINGLE	DUAL	DS
1	+Vin	+Vin	+Vin	24	+Vin	+Vin	+Vin
2	NC	-Vout	-V1out	23	NC	-Vout	-V1out
3	NC	Common	+V1out	22	NC	Common	+V1out
10	-Vout	Common	-V2out	15	-Vout	Common	-V2out
11	+Vout	+Vout	+V2out	14	+Vout	+Vout	+V2out
12	-Vin	-Vin	-Vin	13	-Vin	-Vin	-Vin
Others	NC	NC	NC				

* NC : No Connection

1. All dimensions in inch (mm)
2. Tolerance : x.xx±0.02 (x.x±0.5)
 x.xxx±0.01 (x.xx±0.25)
3. Pin pitch tolerance ±0.01 (0.25)
4. Pin dimension tolerance ±0.004(0.1)



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