



# 8 WATT SINGLE & DUAL OUTPUT

Regulated 24 Pin DIP Package  
Isolated, 2:1 Input  
DC/DC Converters



## FEATURES

- 8 Watts in DIL Package
- 3.3 Vdc Output
- 80% Typical Efficiency
- Regulated Outputs
- No Derating to 70°C
- 1500 Vdc Min. Input/Output Isolation
- 5-Sided EMI Shield

TWA8 Series

## Specifications

All specifications are typical at nominal input, full load, and 25°C , unless otherwise noted.

### INPUT

Input Voltages.....	Voltage Range
12 Vdc.....	9-18 Vdc
24 Vdc.....	18-36 Vdc
48 Vdc.....	36-72 Vdc
Input Filter.....	Pi Network

### OUTPUT

Voltage Accuracy.....	±2% max.
Line Regulation	
Single Output.....	±0.2% max.
Dual Output.....	±0.2% max.
Load Regulation	
Single Output.....	±0.2% max.
Dual Output.....	±1% max.
Ripple Noise (20 MHz BW).....	50mVp-p
Temperature Coefficient (at FL).....	±0.02%/°C max.

### REMOTE ON/OFF CONTROL

Control Voltage Referenced To Negative (-) Input	
Compatibility.....	CMOS, TTL
On Control.....	4.8V min. on open
Off Control.....	1.8V max. on short

### GENERAL

Efficiency.....	80-85% nominal line @ FL
Isolation Voltage.....	1500 Vdc min.
Isolation Resistance.....	1000MOhms
Isolation Capacitance.....	300 pF max.
Switching Frequency.....	300KHz min.

### ENVIRONMENTAL

Operating Temperature Range.....	-25 to +71°C
Storage Temperature Range.....	-55 to +125°C
Cooling Free.....	Air Convection
EMI/RFI.....	Five-Sided Shield

### PHYSICAL

Case Material.....	Non-Conductive Nickel-Coated Copper with Non-Conductive Base
Dimensions.....	1.25" x 0.80" x 0.40" (31.8 x 20.3 x 10.2 mm)



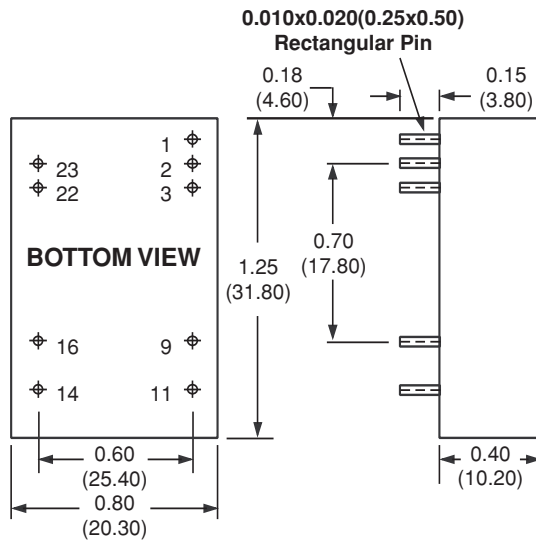
Selection Guide

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	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Efficiency %	Model Number	
<b>SINGLE OUTPUT VOLTAGE</b>	12 (9-18)	3.3	2000	80	TWA8-12S3.3	
		5	1500	82	TWA8-12S5	
		12	666	83	TWA8-12S12	
		15	533	83	TWA8-12S15	
	24 (18-36)	3.3	2000	81	TWA8-24S3.3	
		5	1500	82	TWA8-24S5	
		12	666	83	TWA8-24S12	
		15	533	83	TWA8-24S15	
	48 (36-72)	3.3	2000	81	TWA8-48S3.3	
		5	1500	83	TWA8-48S5	
		12	666	84	TWA8-48S12	
		15	533	84	TWA8-48S15	
<b>DUAL OUTPUTS</b>	12 (9-18)	±5	±800	83	TWA8-12-5	
		±12	±333	84	TWA8-12-12	
		±15	±267	84	TWA8-12-15	
	24 (18-36)	±5	±800	83	TWA8-24-5	
		±12	±333	84	TWA8-24-12	
		±15	±267	84	TWA8-24-15	
	48 (36-72)	±5	±800	84	TWA8-48-5	
		±12	±333	85	TWA8-48-12	
		±15	±267	85	TWA8-48-15	

Mechanical Specifications

I/O Connections		
Pin	SINGLE	DUAL
1	ON/OFF	ON/OFF
2	-Vin	-Vin
3	-Vin	-Vin
9	N/C	Common
11	N/C	-Vout
14	+Vout	+Vout
16	-Vout	Common
22	+Vin	+Vin
23	+Vin	+Vin



All Dimensions are in inches (mm)



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