



1.8 & 3 WATT SINGLE & DUAL OUTPUT

Isolated, Regulated 24-Pin DIP Package
DC/DC Converters



FEATURES

- High Performance Pi Input Filter
- Single & Dual Output
- Highly Regulated Isolated Outputs
- 100% Burn-In
- High Efficiency & Reliability
- No External Components

TW1.8, TW3 Series

Specifications

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

INPUT

5 Vdc.....	4.75-5.5 Vdc
12 Vdc.....	11.40-12.6Vdc
24 Vdc.....	22.8-25.20 Vdc
48 Vdc.....	45.60-50.40Vdc

OUTPUT

Voltage Accuracy.....	±5%
Voltage Stability.....	0.02%/ C max.
Line Regulation.....	±0.5% max.
Load Regulationt	±1% max.
Ripple Noise (20 MHz Bw).....	1% pk-pk 50mV. p-p max. available

GENERAL

Efficiency.....	55% min.
Isolation Voltage.....	500Vdc 2000Vdc (Optional)

ENVIRONMENTAL

Operating Temperature Range.....	-25 to +71 C
Storage Temperature Range.....	-40 to +100 C
Cooling.....	Free Air Convection

PHYSICAL

Dimensions.....	1.25" x 0.80" x 0.40" (31.8 x 20.3 x 10.2mm)
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Selection Guide

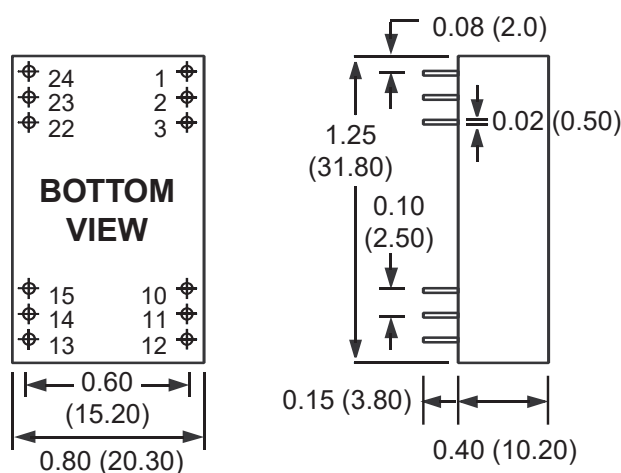
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SINGLE OUTPUT VOLTAGE	Input Voltage Nominal (Vdc)	Output Voltage (Vdc)	Output Current (mA, Max)	Model Number
	5	5	360	TW1.8-5S5
		5	600	TW3-5S5
		9	250	TW1.8-5S9
		9	334	TW3-5S9
		12	150	TW1.8-5S12
		12	250	TW3-5S12
		15	120	TW1.8-5S15
		15	200	TW3-5S15
	12	5	360	TW1.8-12S5
		5	600	TW3-12S5
		9	250	TW1.8-12S9
		9	334	TW3-12S9
		12	150	TW1.8-12S12
		12	250	TW3-12S12
		15	120	TW1.8-12S15
	24	5	360	TW1.8-24S5
		5	600	TW3-24S5
		9	250	TW1.8-24S9
		9	334	TW3-24S9
		12	150	TW1.8-24S12
		12	250	TW3-24S12
		15	120	TW1.8-24S15
	48	5	360	TW1.8-48S5
		5	600	TW3-48S5
		9	250	TW1.8-48S9
		9	334	TW3-48S9
		12	150	TW1.8-48S12
		12	250	TW3-48S12
		15	120	TW1.8-48S15
		15	200	TW3-48S15

DUAL OUTPUT VOLTAGE	Input Voltage Nominal (Vdc)	Output Voltage (Vdc)	Output Current (mA, Max)	Model Number
	5	±5	±180	TW1.8-5-5
		±5	±300	TW3-5-5
		±9	±100	TW1.8-5-9
		±9	±167	TW3-5-9
		±12	±75	TW1.8-5-12
		±12	±125	TW3-5-12
		±15	±60	TW1.8-5-15
		±15	±100	TW3-5-15
	12	±5	±180	TW1.8-12-5
		±5	±300	TW3-12-5
		±12	±75	TW1.8-12-12
		±12	±125	TW3-12-12
		±15	±60	TW1.8-12-15
		±15	±100	TW3-12-15
	24	±5	±180	TW1.8-24-5
		±5	±300	TW3-24-5
		±12	±75	TW1.8-24-12
		±12	±125	TW3-24-12
		±15	±60	TW1.8-24-15
		±15	±100	TW3-24-15
	48	±5	±180	TW1.8-48-5
		±5	±300	TW3-48-5
		±12	±75	TW1.8-48-12
		±12	±125	TW3-48-12
		±15	±60	TW1.8-48-15
		±15	±100	TW3-48-15

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)