

REGULATED DC/DC CONVERTERS

24 PIN DIP PACKAGE

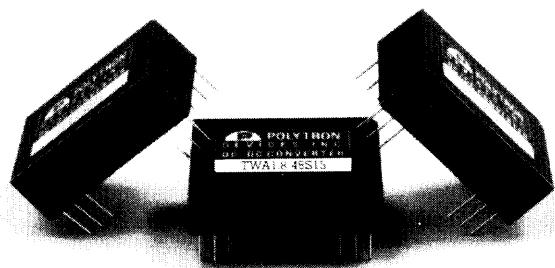
WIDE INPUT RANGE

FEATURES:

- WIDE INPUT RANGE
- INPUT/OUTPUT ISOLATION: 500 VDC
- EFFICIENCY TO 76% @ FL
- SHORT CIRCUIT PROTECTION
- NO EXTERNAL COMPONENTS

SPECIFICATIONS:

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



INPUT

INPUT VOLTAGE RANGE

12 Vdc Nominal.....	9-18 Vdc
	9-36 Vdc ²
24 Vdc Nominal.....	18-36 Vdc
	18-72 Vdc ²
48 Vdc Nominal.....	36-72 Vdc
Input Filter.....	Pi Network

OUTPUT

Voltage Accuracy.....	±3% Max.
Temperature Coefficient.....	±0.02%/°C Max.
Ripple and Noise (20Mhz BW).....	0.5-1% P-P Max.
Line and Load Regulation.....	±1% Max.
Voltage Stability (24 Hour).....	±0.05% Max.
Short Circuit Protection.....	Continuous

GENERAL

Isolation Voltage.....	500 Vdc Min.
	1500 VRMS ¹
Isolation Resistance.....	10 ⁹ Ohms Min.
Isolation Capacitance.....	50pF
Switching Frequency.....	25 KHz Min.

ENVIRONMENTAL

Operating Temperature Range.....	-25°C to + 71° C ³
Storage Temperature Range.....	-55°C To +105° C
Derating.....	None
Cooling.....	Free Air Convection
Humidity.....	20-95% RH Non-Condensing

PHYSICAL SPECIFICATIONS

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

¹ FOR 1500 VRMS ISOLATION VOLTAGE CONTACT FACTORY.

² FOR 4:1 INPUT RANGE (9-36), 18-72Vdc) USE PREFIX TWB IN PLACE OF TWA IN MODELL NUMBER.

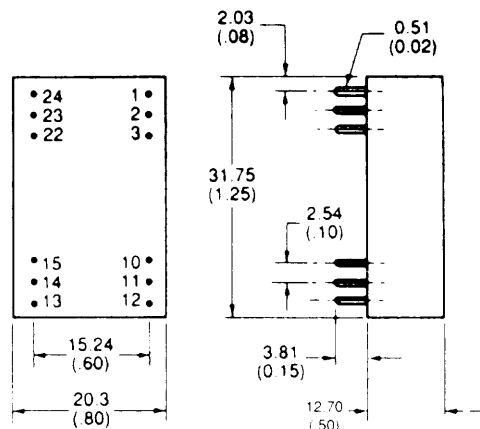
³ FOR -40°C TO +85°C, USE SUFFIX 'W' AFTER MODEL NUMBER

DC/DC CONVERTERS - 3W **WIDE INPUT RANGE (continued)**

	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	INPUT NO LOAD	CURRENT(mA) FULL LOAD	MODEL NUMBER	PRICE 1-9 QTY
SINGLE VOLTAGE	12 (9-18)	5	500	25	320	TWA3-12S5	\$ 39.00
		12	250	25	370	TWA3-12S12	39.00
		15	200	25	370	TWA3-12S15	39.00
	24 (18-36)	5	500	15	170	TWA3-24S5	39.00
		12	250	15	186	TWA3-24S12	39.00
		15	200	15	182	TWA3-24S15	39.00
	48 (36-72)	5	500	15	85	TWA3-48S5	39.00
		12	250	15	94	TWA3-48S12	39.00
		15	200	15	94	TWA3-48S15	39.00
DUAL VOLTAGE	(4.5-6)	± 5	± 250	140	1000	TWA3-5-5	43.00
	12 (9-18)	± 5	± 250	25	320	TWA3-12-5	43.00
		± 12	± 125	25	370	TWA3-12-12	43.00
		± 15	± 100	25	370	TWA3-12-15	43.00
	24 (18-36)	± 5	± 250	15	170	TWA3-24-5	43.00
		± 12	± 125	15	186	TWA3-24-12	43.00
		± 15	± 100	15	182	TWA3-24-15	43.00
	48 (36-72)	± 5	± 250	15	85	TWA3-48-5	43.00
		± 12	± 125	15	94	TWA3-48-12	43.00
		± 15	± 100	15	94	TWA3-48-15	43.00

DIMENSION: BOTTOM VIEW

Pin Connections		
PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+ V INPUT	+ V INPUT
2	N.C.	- V OUTPUT
3	N.C.	COMMON
10	- V OUTPUT	COMMON
11	+ V OUTPUT	+ V OUTPUT
12	- V INPUT	- V INPUT
13	- V INPUT	- V INPUT
14	+ V OUTPUT	+ V OUTPUT
15	- V OUTPUT	COMMON
22	N.C.	COMMON
23	N.C.	- V OUTPUT
24	+ V INPUT	+ V INPUT



ALL DIMENSIONS IN MM (INCHES)