

Features

- ◆ Wide 2:1 and 3:1 input range
- ◆ High efficiency up to 81%
- ◆ DIL-24 plastic package
- ◆ Indefinite short-circuit protection
- ◆ I/ O isolation 1500 VDC
- ◆ Operating temperature range
-40°C to +85°C
- ◆ 3-year product warranty



The TEL 3 series is a range of isolated 3 Watt converters in DIL-24 package offering wide 2:1 and 3:1 input voltage ranges. Further features are high efficiency which allows operation temperature up to +71°C at full load and low output noise.

This product series provides an economical solution for many cost critical applications in industrial and consumer electronics.

Models

Ordercode	Input voltage range	Output voltage	Output current max.	Efficiency typ.
* TEL 3-0511	4.5 – 9.0 VDC (nominal 5 VDC)	5 VDC	600 mA	70 %
* TEL 3-0512		12 VDC	250 mA	74 %
TEL 3-0513		15 VDC	200 mA	74 %
* TEL 3-0522		±12 VDC	±125 mA	74 %
* TEL 3-0523		±15 VDC	±100 mA	74 %
* TEL 3-1211	9 – 18 VDC (nominal 12 VDC)	5 VDC	600 mA	76 %
* TEL 3-1212		12 VDC	250 mA	80 %
TEL 3-1213		15 VDC	200 mA	80 %
* TEL 3-1222		±12 VDC	±125 mA	80 %
* TEL 3-1223		±15 VDC	±100 mA	80 %
TEL 3-2011	10 – 30 VDC (nominal 20 VDC)	5 VDC	600 mA	76 %
TEL 3-2012		12 VDC	250 mA	80 %
TEL 3-2013		15 VDC	200 mA	80 %
TEL 3-2022		±12 VDC	±125 mA	80 %
TEL 3-2023		±15 VDC	±100 mA	80 %
* TEL 3-2411	18 – 36 VDC (nominal 24 VDC)	5 VDC	600 mA	77 %
* TEL 3-2412		12 VDC	250 mA	81 %
TEL 3-2413		15 VDC	200 mA	81 %
* TEL 3-2422		±12 VDC	±125 mA	81 %
* TEL 3-2423		±15 VDC	±100 mA	81 %
TEL 3-4811	36 – 75 VDC (nominal 48 VDC)	5 VDC	600 mA	77 %
TEL 3-4812		12 VDC	250 mA	81 %
TEL 3-4813		15 VDC	200 mA	81 %
TEL 3-4822		±12 VDC	±125 mA	81 %
TEL 3-4823		±15 VDC	±100 mA	81 %

* add suffix **-NP** for models with industry standard pinout

Input Specifications

Input current (no load)	5 Vin models	40 mA typ.
	12 Vin models	20 mA typ.
	20 Vin models	15 mA typ.
	24 Vin models	5 mA typ.
	48 Vin models	3 mA typ.
Input current (full load)	5 Vin models	820 mA typ.
	12 Vin models	320 mA typ.
	20 Vin models	190 mA typ.
	24 Vin models	155 mA typ.
	48 Vin models	80 mA typ.
Surge voltage (1 sec. max.)	5 Vin models	11 VDC
	12 Vin models	25 VDC
	20 Vin models	50 VDC
	24 Vin models	50 VDC
	48 Vin models	100 VDC

Output Specifications

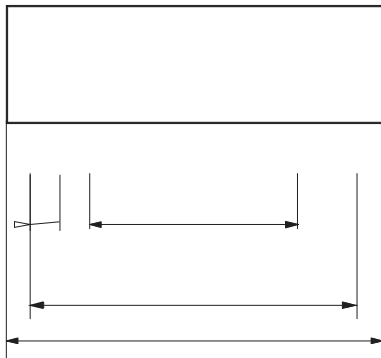
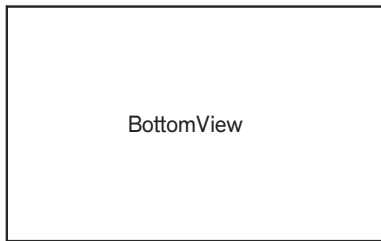
Voltage set accuracy 8 0 122 0 (92 e-D (o3Tex Tw 9 0 0 9 98.6856 604.6592 Tm(())60.7 (1 s)-17.4 (e)-12.7 (c)-23.4 (. m)-13.1547 (c6 6021.2 (u)-1

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Physical Specifications

Casing material	non conductive black plastic
Potting material	epoxy (UL94V-0 rated)
Weight	12 g (0.42 oz)
Soldering temperature	max. 265°C / 10 sec.

Outline Dimensions mm (inches)



Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com