

5 Watts

WT Series



- 2:1 Input Range
- Optional 4:1 Input Range
- Isolated Outputs
- Efficiency to 82%
- Fully Regulated Outputs
- Optional 3 kVDC Isolation
- UL Approved Versions

Specification

Input

- Input Voltage Range**
- 12 V (9-18 or 9-36 VDC - A version)
24 V (18-36 or 18-72 VDC - A version)
48 V (36-72 VDC)
- Input Current (no load)**
- See table
- Input Filter**
- Pi network
- Undervoltage Lockout**
- Turn On > 65% nominal input
Turn Off < 63% nominal input

Output

- Output Voltage**
- see tables
- Output Voltage Balance**
- $\pm 1\%$ max, dual output models
- Initial Set Accuracy**
- $\pm 2\%$ max
- Start Up Rise Time**
- 3 ms max
- Line Regulation**
- $\pm 0.5\%$ max from high line to low line
- Load Regulation**
- $\pm 0.5\%$ max for 10-100% load change for single output models,
 $\pm 1.0\%$ max for 25-100% load change for dual output models
- Cross Regulation**
- $\pm 2.2\%$ on dual output models
- Transient Response**
- <1.0% max deviation, recovering within 200 μ s for a 50% load change
- Ripple & Noise**
- 100 or 1.0% pk-pk, whichever is greater, 20MHz BW
- Short Circuit Protection**
- Continuous with auto recovery
- Temperature Coefficient**
- ± 0.05 / $^{\circ}$ C max

General

- Efficiency**
- See table
- Isolation**
- 500 VDC Input to Output (1000 M /80 pF)
Optional high isolation version,
3000 VDC Input to Output, add suffix 'X'
- Switching Frequency**
- 100 kHz typical
- MTBF**
- 1,000 kHrs to MIL-HDBK-217F

Environmental

- Operating Temperature**
- -25 μ C to $+70$ μ C (see derating curve)
- Case Temperature**
- $+95$ μ C max
- Storage Temperature**
- -40 μ C to $+100$ μ C

EMC & Safety

- Emissions**
- EN55022, level A conducted
EN55022, level A radiated
- ESD Immunity**
- EN61000-4-2, level 2
Perf Criteria A
- Radiated Immunity**
- EN61000-4-3 3 V/m
Perf Criteria A
- Conducted Immunity**
- EN61000-4-6 3 V rms
Perf Criteria A
- Safety**
- UL1950 (for XU versions only)

Models and Ratings

Input Voltage ^(1,2,4)	Output Voltage	Output Current	Input Current ⁽⁶⁾		Efficiency	Model Number ⁽³⁾
			No Load	Full Load		
9-18 VDC	3.3 VDC	1000 mA	7.5 mA	393 mA	70%	WT200
	5.0 VDC	1000 mA	7.5 mA	545 mA	76%	WT201
	12.0 VDC	470 mA	7.5 mA	585 mA	80%	WT202
	15.0 VDC	400 mA	7.5 mA	625 mA	80%	WT203
	±5.0 VDC	±500 mA	12.0 mA	545 mA	76%	WT204
	±12.0 VDC	±230 mA	12.0 mA	575 mA	80%	WT205
	±15.0 VDC	±190 mA	12.0 mA	590 mA	80%	WT206
18-36 VDC	3.3 VDC	1000 mA	5.0 mA	197 mA	70%	WT300
	5.0 VDC	1000 mA	5.0 mA	265 mA	78%	WT301
	12.0 VDC	470 mA	5.0 mA	285 mA	82%	WT302
	15.0 VDC	400 mA	5.0 mA	305 mA	82%	WT303
	±5.0 VDC	±500 mA	7.5 mA	265 mA	78%	WT304
	±12.0 VDC	±230 mA	7.5 mA	285 mA	81%	WT305
	±15.0 VDC	±190 mA	7.5 mA	295 mA	81%	WT306
36-72 VDC	3.3 VDC	1000 mA	2.0 mA	98 mA	70%	WT400
	5.0 VDC	1000 mA	2.0 mA	133 mA	78%	WT401
	12.0 VDC	470 mA	2.0 mA	145 mA	81%	WT402
	15.0 VDC	400 mA	2.0 mA	154 mA	81%	WT403
	±5.0 VDC	±500 mA	3.0 mA	133 mA	78%	WT404
	±12.0 VDC	±230 mA	3.0 mA	142 mA	81%	WT405
	±15.0 VDC	±190 mA	3.0 mA	147 mA	81%	WT406

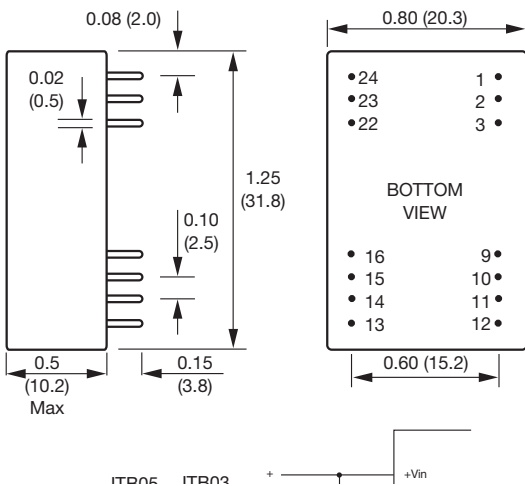
Notes

- Nominal input voltage 12, 24 or 48 VDC.
- For optional 4:1 input range: 9-36 VDC: Add suffix ' A' to WT2xx model number, 18-72 VDC: Add suffix ' A' to WT3xx model number.
- For 3000 VDC isolation add suffix ' X' to model number.
- For UL1950 approval, add suffix ' XU' to model number. UL approved product is only available with 3000 VDC isolation and option ' X' pinout.
- ' X' or ' XU' versions are not available with optional 4:1 input range.
- Input current is at nominal input voltage.

Mechanical Details

All dimensions are in inches (mm)

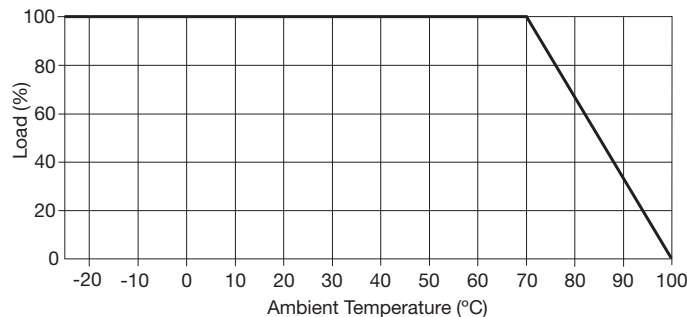
Weight: 0.06 lbs (25 g) approx.



PIN CONNECTIONS		
Pin	Single Output	Dual Output
1	+V input	+V input
2	N/C	-V output
3	N/C	Common
9	No pin	No pin
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
16	No pin	No pin
22	N/C	Common
23	N/C	-V output
24	+V input	+V input

OPTION ' X' / ' XU' PIN CONNEC-		
Pin	Single Output	Dual Output
1	No pin	No pin
2	-V input	-V input
3	-V input	-V input
9	N/C	Common
10	N/C	N/C
11	N/C	-V output
12	No pin	No pin
13	No pin	No pin
14	+V output	+V output
15	N/C	N/C
16	-V output	Common
22	+V input	+V input
23	+V input	+V input
24	No pin	No pin

Derating Curve



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