DC/DC Converters

5 Watts
WT Series

XPiQ inc.
Intelligent Design Quality Product

- 2:1 Input Range
- Optional 4:1 Input Range
- Isolated Outputs
- Efficiency to 82%
- Fully Regulated Outputs
- Optional 3k VDC Isolation

Specification

Input

Input Voltage Range	*12 V (9-18 VDC or 9-36 VDC)* *24 V (18-36 VDC or 20-72 VDC) (see note 2)* *48 V (36-72 VDC)*
Input Filter	*π Network*

Output

Output Power	*5 Watts for 5 V output models* *6 Watts for 15 V output models*
Output Voltage	*5, 12 & 15 V single & dual output models*
Voltage Accuracy	*±2% max*
Line Regulation	*±0.5% max*
Load Regulation	*±0.5% max for single output models* *±1.0% max for dual output models*
Ripple & Noise	*5 V 100 mV pk-pk max* *12 V & 15 V 1% pk-pk max* *(20 MHz bandwidth)*
Temperature Coefficient	*±0.05%/°C max*
Short Circuit Protection	*Continuous*

General

Switching Frequency	*100 kHz typical*
Efficiency	*See Table*
Isolation	*500 VDC input to output (1000 MΩ/80 pF)* *Optional high isolation version available, 3000 VDC input to output (1000 MΩ/80 pF)*
Dimensions	*0.80" x 1.25" x 0.50"*
Weight	*25 g*

Environmental

Operating Temperature	*-25 °C to +71 °C*
Storage Temperature	*-40 °C to +100 °C*

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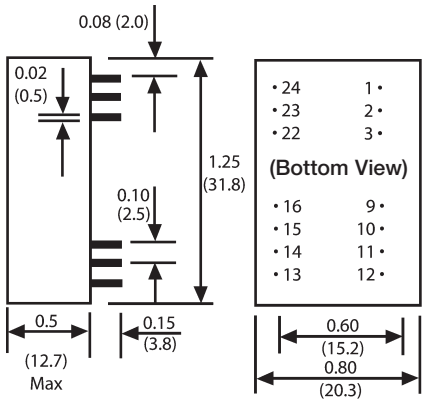
OUTPUT VOLTAGE & CURRENT RATINGS — WT

Input Voltage[1,2,4]	Output Voltage	Output Current	Input Current[5]		Efficiency	Model Number[3]
			No Load	Full Load		
9-18 VDC	5 VDC	1000 mA	7.5 mA	545 mA	76%	**WT201**
	12 VDC	470 mA	7.5 mA	585 mA	80%	**WT202**
	15 VDC	400 mA	7.5 mA	625 mA	80%	WT203
	±5 VDC	±500 mA	12.0 mA	545 mA	76%	WT204
	±12 VDC	±230 mA	12.0 mA	575 mA	80%	**WT205**
	±15 VDC	±190 mA	12.0 mA	590 mA	80%	WT206
18-36 VDC	5 VDC	1000 mA	5.0 mA	265 mA	78%	**WT301**
	12 VDC	470 mA	5.0 mA	285 mA	82%	**WT302**
	15 VDC	400 mA	5.0 mA	305 mA	82%	WT303
	±5 VDC	±500 mA	7.5 mA	265 mA	78%	WT304
	±12 VDC	±230 mA	7.5 mA	285 mA	81%	**WT305**
	±15 VDC	±190 mA	7.5 mA	295 mA	81%	WT306
36-72 VDC	5 VDC	1000 mA	2.0 mA	133 mA	78%	**WT401**
	12 VDC	470 mA	2.0 mA	145 mA	81%	**WT402**
	15 VDC	400 mA	2.0 mA	154 mA	81%	WT403
	±5 VDC	±500 mA	3.0 mA	133 mA	78%	WT404
	±12 VDC	±230 mA	3.0 mA	142 mA	81%	**WT405**
	±15 VDC	±190 mA	3.0 mA	147 mA	81%	WT406

Notes

1. *Nominal input voltage 12, 24, or 48 V DC.*
2. *For optional 4:1 input range: 9-36 VDC: add suffix 'A' to WT20X model number, 20-72 VDC: add suffix "A" to WT30X model number.*
3. *For 3000 VDC isolation add suffix 'X' to model number.*
4. *X versions are not available with optional 4:1 input range.*
5. *Input current is at nominal input voltage.*
6. *Part numbers in bold type are standard stock models, all others are build to order*

Mechanical Details



Dimensions in inches (mm)

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' PIN CONNECTIONS		
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