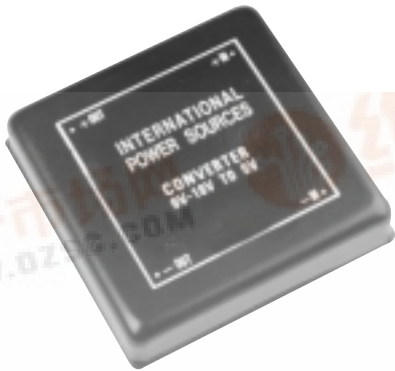


DC/DC Converters

XPiQ inc.
Intelligent Design Quality Product


International
Power Sources, Inc.



10/15 Watts

WU Series

- 4:1 Input Range
- Isolated Outputs
- Efficiency to 84%
- Overvoltage Protection
- Input π Filter
- Short Circuit Protected
- Fully Regulated Outputs

Specification

All specifications are typical at nominal line, full load and 25°C

Input		General	
Input Voltage Range	• See Table	Switching Frequency	• 100 kHz
Input Filter	• π Network	Efficiency	• See Table
Output		Isolation (Input-Output)	• 500 VDC (1000 Mohm/80pF)
Voltage Accuracy	• $\pm 1.0\%$ max.	Environmental	
Line Regulation (Full Input Range)	• $\pm 1.0\%$ max.	Operating Temperature	• -25°C to +71°C
Load Regulation (1/4-full load)	• $\pm 1.0\%$ max.	Storage Temperature	• -55°C to 125°C
Ripple & Noise (DC-20 MHz)	• 1% of Vout max.		
Temperature Coefficient	• $\pm 0.02\%/^{\circ}\text{C}$ max.		
Short Circuit Protection	• Indefinite		



OUTPUT VOLTAGE & CURRENT RATINGS						WU
Model	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency
				No Load	Full Load	
WU100	4.5-6.0 VDC	3.3 VDC	3000 mA	10 mA	2470 mA	80
WU101	4.5-6.0 VDC	5.0 VDC	2000 mA	10 mA	2620 mA	76
WU102	4.5-6.0 VDC	12.0 VDC	800 mA	10 mA	2520 mA	76
WU103	4.5-6.0 VDC	15.0 VDC	667 mA	10 mA	2510 mA	80
WU104	4.5-6.0 VDC	±5.0 VDC	±1000 mA	10 mA	2620 mA	76
WU105	4.5-6.0 VDC	±12.0 VDC	±400 mA	10 mA	2520 mA	76
WU106	4.5-6.0 VDC	±15.0 VDC	±333 mA	10 mA	2510 mA	79
WU200	9.0-18.0 VDC	3.3 VDC	3000 mA	10 mA	1030 mA	80
WU201	9.0-36.0 VDC	5.0 VDC	3000 mA	30 mA	1560 mA	80
WU202	9.0-36.0 VDC	12.0 VDC	1250 mA	30 mA	1540 mA	81
WU203	9.0-36.0 VDC	15.0 VDC	1000 mA	30 mA	1525 mA	82
WU204	9.0-36.0 VDC	±5.0 VDC	±1500 mA	30 mA	1560 mA	80
WU205	9.0-36.0 VDC	±12.0 VDC	±625 mA	30 mA	1540 mA	81
WU206	9.0-36.0 VDC	±15.0 VDC	±500 mA	30 mA	1520 mA	82
WU207	9.0-36.0 VDC	5.0/±12.0 VDC	1500/±310 mA	20 mA	1576 mA	79
WU208	9.0-36.0 VDC	5.0/±15 VDC	1500/±250 mA	20 mA	1582 mA	79
WU209	9.0-36.0 VDC	5.0/±12.0/-5.0 VDC	1500/310/500 mA	20 mA	1447 mA	79
WU300	18.0-36.0 VDC	3.3 VDC	3000 mA	10 mA	500 mA	83
WU301	20.0-72.0 VDC	5.0 VDC	3000 mA	20 mA	760 mA	82
WU302	20.0-72.0 VDC	12.0 VDC	1250 mA	20 mA	750 mA	83
WU303	20.0-72.0 VDC	15.0 VDC	1000 mA	20 mA	745 mA	84
WU304	20.0-72.0 VDC	±5.0 VDC	±1500 mA	20 mA	760 mA	82
WU305	20.0-72.0 VDC	±12.0 VDC	±625 mA	20 mA	750 mA	83
WU306	20.0-72.0 VDC	±15.0 VDC	±500 mA	20 mA	745 mA	84
WU307	20.0-72.0 VDC	5.0/±12.0 VDC	1500/±310 mA	15 mA	778 mA	80
WU308	20.0-72.0 VDC	5.0/±15.0 VDC	1500/±250 mA	15 mA	781 mA	80
WU309	20.0-72.0 VDC	5.0/±12.0/-5.0 VDC	1500/310/500 mA	15 mA	715 mA	80
WU400	36.0-72.0 VDC	3.3 VDC	3000 mA	10 mA	245 mA	84

Note: Nominal Input Voltage 5,12, 24 or 48 VDC

Mechanical Details

PIN	SINGLE	DUAL	TRIPLE
1	+ Input	+ Input	Disable
2	- Input	- Input	- Input
3	+ Output	+ Output	+ Input
4	Trim	Common	- Output
5	- Output	- Output	Common
6	Disable	Disable	5 VDC Output
7	-	-	+ Output

REMOTE ON/OFF CONTROL

Logic CompatibilityCMOS or Open Collector TTL

E_C - ON,.....>+5.5 VDC or Open Circuit

E_C - OFF,<1.8 VDC

Shutdown Idle Current10 mA

Input Resistance(E_{IN} 0 VDC to 9 VDC)100KOhm

Control CommonReferenced to input Minus

EXTERNAL OUTPUT TRIMMING

Output may optionally be externally trimmed (±5%) with a fixed resistor or an external trimpot as shown.

NOTES:

1. Voltage accuracy on 3VDC and triple outputs ±3% Max. Single outputs can be trimmed ±5%.
2. Load regulation ±2% for dual and triple outputs.
3. Triple outputs require minimum of 10% load for rated performance.
4. Remote on/off standard on triple output units, add suffix "E" to part number for option on single and dual output units.

SINGLE/DUAL OUTPUT

Dimensions in inches (mm).

TRIPLE OUTPUT

