

WF Series



- 2:1 Input Range
- Efficiency to 85%
- Input Pi Filter
- Single, Dual & Triple Outputs
- Remote On/Off
- Six-sided Metal Case
- External Output Trim

Specification

Input

- | | |
|----------------------|---|
| Input Voltage Range | • See table |
| Input Current | • See Table |
| Input Filter | • Pi network |
| Undervoltage Lockout | • Turn On >70% nominal input
Turn Off <65% nominal input |

Output

- | | |
|-----------------------------|--|
| Initial Set Accuracy | • Single output models: $\pm 2\%$ max
Dual output models: $\pm 2\%$ max V1
$\pm 3\%$ max V2
Triple output models: $\pm 2\%$ max V1
$\pm 5\%$ max V2 & V3 |
| Output Voltage Adjustment | • $\pm 10\%$ (except triple output models) |
| Minimum Load | • Triple output models only |
| Voltage Balance Dual Output | • $\pm 1.0\%$ max at full load |
| Line Regulation | • $\pm 0.5\%$ max single & dual output models,
$\pm 1.0\%$ max triple output models |
| Load Regulation | • $\pm 1.0\%$ max single & dual output models,
$\pm 5.0\%$ max triple output models |
| Transient Response | • 5% max deviation, recovery to within
1% in 500 μ s for a 25% step load change |
| Ripple & Noise | • 10 mV RMS max
75 mV pk-pk max, 20 MHz BW |
| Short Circuit Protection | • Continuous, trip & restart (hiccup mode)
with auto recovery |
| Temperature Coefficient | • 0.02%/°C max |
| Remote On/Off | • On >5.5 VDC or open circuit
Off <1.8 VDC or short to Vin |

General

- | | |
|----------------------|--|
| Efficiency | • See table |
| Isolation Voltage | • 500 VDC min (3000 VDC for 'U' version) |
| Isolation Resistance | • 10^9 ohms min |
| Switching Frequency | • 300 kHz typical |
| MTBF | • >800 kHrs to MIL-STD-217F |

Environmental

- | | |
|-----------------------|--|
| Operating Temperature | • -25 °C to +100 °C (see derating curve) |
| Storage Temperature | • -40 °C to +100 °C |
| EMI/RFI | • Six-sided continuous shield |

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 Approvals | • UL60950-1 for 'U' versions only |

Models and Ratings

Input Voltage	Output Voltage	Output Current	Input Current		Efficiency	Model Number ⁽¹⁾
			No Load	Full Load		
9-18 VDC	3.3 VDC	5.00 A	30 mA	1.86 A	74%	WF100
	5.0 VDC	5.00 A	30 mA	2.67 A	78%	WF101
	12.0 VDC	2.50 A	30 mA	3.05 A	82%	WF102
	15.0 VDC	2.00 A	30 mA	3.05 A	82%	WF103
	±5.0 VDC	±2.50 A	35 mA	2.67 A	78%	WF104
	±12.0 VDC	±1.25 A	35 mA	3.05 A	82%	WF105
	±15.0 VDC	±1.00 A	35 mA	3.05 A	82%	WF106
	5.0/±12.0 VDC	3.50/±0.31 A	35 mA	2.64 A	79%	WF107
18-36 VDC	3.3 VDC	5.00 A	30 mA	0.92 A	75%	WF200
	5.0 VDC	5.00 A	30 mA	1.34 A	79%	WF201
	12.0 VDC	2.50 A	30 mA	1.52 A	82%	WF202
	15.0 VDC	2.00 A	30 mA	1.52 A	82%	WF203
	±5.0 VDC	±2.50 A	30 mA	1.34 A	79%	WF204
	±12.0 VDC	±1.25 A	30 mA	1.47 A	85%	WF205
	±15.0 VDC	±1.00 A	30 mA	1.47 A	85%	WF206
	5.0/±12.0 VDC	3.50/±0.31 A	30 mA	1.32 A	80%	WF207
36-72 VDC	3.3 VDC	5.00 A	20 mA	0.46 A	75%	WF300
	5.0 VDC	5.00 A	20 mA	0.66 A	79%	WF301
	12.0 VDC	2.50 A	20 mA	0.76 A	82%	WF302
	15.0 VDC	2.00 A	20 mA	0.76 A	82%	WF303
	±5.0 VDC	±2.50 A	25 mA	0.66 A	79%	WF304
	±12.0 VDC	±1.25 A	25 mA	0.73 A	85%	WF305
	±15.0 VDC	±1.00 A	25 mA	0.73 A	85%	WF306
	5.0/±12.0 VDC	3.50/±0.31 A	25 mA	0.65 A	80%	WF307
	5.0/±15.0 VDC	3.50/±0.25 A	25 mA	0.65 A	80%	WF308

Notes

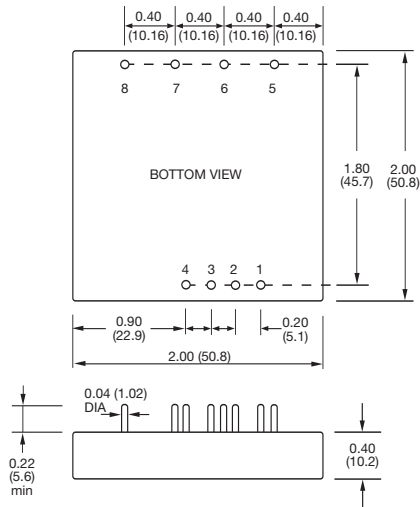
1. For optional UL60950-1 approved product, add suffix 'U' to model number.

Mechanical Details

All dimensions are in inches (mm)

Weight: 0.15 lbs (66 g) approx.

Case Material: Black coated copper with non-conductive base.



PIN CONNECTIONS			
Pin	Single Output	Dual Output	Triple Output
1	Remote On/Off	Remote On/Off	Remote On/Off
2	No pin	No pin	No pin
3	-V input	-V input	-V input
4	+V input	+V input	+V input
5	Output trim	Output trim	-Output
6	-Output	-Output	Common
7	+Output	Common	+5V Output
8	No pin	+Output	+Output

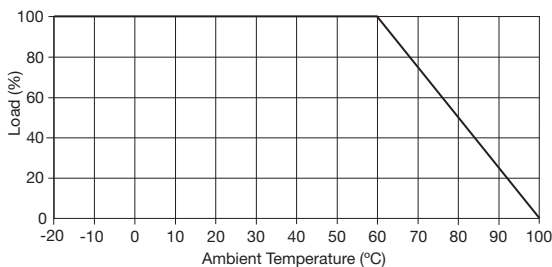
TRIPLE OUTPUT LOADING TABLE ⁽¹⁾			
Output Pin No.	Voltage	Current	
		Minimum ⁽²⁾	Maximum
7	+5	0.50 A	3.50 A
8 & 5	+12 or -12	0.10 A	0.31 A
8 & 5	+15 or -15	0.10 A	0.25 A

Notes

- Maximum total power from all outputs is limited to 25 W but no output should be allowed to exceed its maximum current.
- Minimum current on each output is required to maintain specified regulation.

Application Notes

Derating Curve



External Output Trimming

