

IW Series



- Regulated Single & Dual Output
- Wide 2:1 Input Range
- SIP or DIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- Continuous Short Circuit Protection
- MTBF >1.1 Mhrs

Specification

Input

- Input Voltage Range • See table
- Input Reflected Ripple • 35 mA through 12 μ H inductor
5 Hz to 20 MHz

Output

- Output Voltage • See table
- Line Regulation • $\pm 0.5\%$ max
- Load Regulation • $\pm 1.0\%$ max from 25-100% load
- Setpoint Accuracy • $\pm 2\%$ max
- Ripple & Noise • 80 mV pk-pk max 20 MHz bandwidth
- Temperature Coefficient • 0.02%/ $^{\circ}$ C
- Short Circuit Protection • Continuous with auto recovery
- Maximum Capacitive Load • 3.3-5 V: 3300 μ F
9-15 V: 470 μ F
24 V: 220 μ F
- Remote On/Off • Optional on single output SIP models
Applying 5 V via 1 k Ω current limiting resistor & diode turns output off (see note 6)

General

- Efficiency • See table
- Isolation Voltage • 1000 VDC, optional 3000 VDC (see note 2)
- Isolation Resistance • 10⁹ Ω
- Isolation Capacitance • 60 pF typical
- Switching Frequency • 100-650 kHz typical
- MTBF • >1.1 Mhrs

Environmental

- Operating Temperature • -40 to +85 $^{\circ}$ C
- Storage Temperature • -40 to +125 $^{\circ}$ C
- Case Temperature • 100 $^{\circ}$ C max
- Cooling • Convection cooled

Notes

1. All dimensions in inches (mm).
2. For 3 kV isolation, add suffix '-H' to model number .
3. For dual inline package, replace 'S' in the model number with 'D'.
4. For 48 Vin (36-72 VDC) replace first 2 digits with '48' e.g. IW4805SA.
5. For dual output models delete suffix 'A' and split output currents equally between rails.
6. For optional Remote On/Off, add suffix '-R' to model number.

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number ⁽²⁻⁶⁾
4.5-9 VDC	3.3 V	303 mA	65%	IW0503SA
	5.0 V	200 mA	65%	IW0505SA
	9.0 V	111 mA	66%	IW0509SA
	12.0 V	84 mA	66%	IW0512SA
	15.0 V	67 mA	66%	IW0515SA
9-18 VDC	24.0 V	42 mA	66%	IW0524SA
	3.3 V	303 mA	65%	IW1203SA
	5.0 V	200 mA	68%	IW1205SA
	9.0 V	111 mA	72%	IW1209SA
	12.0 V	84 mA	72%	IW1212SA
18-36 VDC	15.0 V	67 mA	72%	IW1215SA
	24.0 V	42 mA	72%	IW1224SA
	3.3 V	303 mA	64%	IW2403SA
	5.0 V	200 mA	68%	IW2405SA
	9.0 V	111 mA	70%	IW2409SA
	12.0 V	84 mA	72%	IW2412SA
	15.0 V	67 mA	72%	IW2415SA
	24.0 V	42 mA	70%	IW2424SA

Mechanical Details

