



- **Dual Output**
- SIP or DIP Package
- **Industry Standard Pinout**
- 1000 VDC Isolation
- -40 °C to +85 °C Operation
- MTBF >1.1 MHrs
- 3 Year Warranty

Specification

Input

Input Voltage Range Input Reflected

Ripple Current Input Reverse Voltage

Protection

- Nominal ±10%⁽⁵⁾
- 20 mA pk-pk (through 12 μH inductor 5 Hz to 20 MHz)
- None

Output

Output Voltage Minimum Load

Line Regulation Load Regulation See table None⁽⁶⁾

• 1.2%/1% Δ Vin

10% 20-100% load change (3.3 V models ±20%)

Setpoint Accuracy Ripple & Noise

• ±3%

• 75 mV pk-pk max, 20 MHz bandwidth

Temperature Coefficient • 0.02%/°C Maximum Capacitive

• ±100 µF

General

Load

Efficiency

Isolation Voltage

Isolation Resistance **Isolation Capacitance**

Switching Frequency

MTBF

See table

• 1000 VDC minimum

• 10°O

• 60 pF typical

· Variable, 80 KHz typical

• >1.12 MHrs to MIL-HDBK-217F at 25 °C, GB

Environmental

Operating Temperature • -40 °C to +85 °C Storage Temperature

• -40 °C to +125 °C

• 100 °C max

· Convection-cooled

Case Temperature Cooling

Safety

Safety Approvals

UL60950-1, CAN/CSA C22.2 No.60950-1

Notes

- Replace 'S' in model number with 'D' for DIP package. 1.
- SIP 48 Vin models, dimension is 0.28 (7.20) max.
- DIP 48 Vin models, dimension is 0.27 (6.88) max.
- Outputs power-trade.
- For $48\,V$ models a 10 μF capacitor is required between +Vin and -Vin pins.
- 6. Operation at no load will not damage unit but it may not meet all specifications.
- All dimensions in inches (mm).
- Pin pitch tolerance: ±0.014 (±0.35)
- Case tolerance ±0.02 (±0.5)
- 10. Weight: SIP 0.006 lbs (2.6 g), DIP 0.005 lbs (2.3 g)

Input Voltage	Output Voltage	Output Current ⁽⁴⁾	Efficiency	Model Number ⁽¹⁾
3.3 VDC	±5.0 V	±100 mA	66%	IA0305S
5 VDC	±3.3 V	±151 mA	65%	IA0503S
	±5.0 V	±100 mA	74%	IA0505S
	±9.0 V	±55 mA	78%	IA0509S
	±12.0 V	±42 mA	78%	IA0512S
	±15.0 V	±33 mA	80%	IA0515S
	±24.0 V	±21 mA	80%	IA0524S
12 VDC	±3.3 V	±151 mA	66%	IA1203S
	±5.0 V	±100 mA	75%	IA1205S
	±9.0 V	±55 mA	76%	IA1209S
	±12.0 V	±42 mA	78%	IA1212S
	±15.0 V	±33 mA	80%	IA1215S
	±24.0 V	±21 mA	76%	IA1224S
24 VDC	±3.3 V	±151 mA	68%	IA2403S
	±5.0 V	±100 mA	74%	IA2405S
	±9.0 V	±55 mA	76%	IA2409S
	±12.0 V	±42 mA	78%	IA2412S
	±15.0 V	±33 mA	78%	IA2415S
	±24.0 V	±21 mA	78%	IA2424S
48 VDC ⁽⁶⁾	±3.3 V	±151 mA	60%	IA4803S
	±5.0 V	±100 mA	70%	IA4805S
	±9.0 V	±55 mA	72%	IA4809S
	±12.0 V	±42 mA	74%	IA4812S
	±15.0 V	±33 mA	74%	IA4815S
	±24.0 V	±21 mA	70%	IA4824S

Mechanical Details



