

2 Watts

IH Series



- Dual Output
- SIP or DIP Package
- Industry Standard Pinout
- 1000 VDC Isolation
- Optional 3000-6000 VDC Isolation
- Short Circuit Protection
- -40 °C to +85 °C Operation

Specification

Input

- Input Voltage Range • Nominal $\pm 10\%$
- Input Current (no load) • See table
- Input Reflected Ripple • 20 mA rms
- Input Reverse Voltage Protection • None

Output

- Output Voltage • See table
- Minimum Load • None⁽⁶⁾
- Line Regulation • 1.2%/1% ΔV_{in}
- Load Regulation • $\pm 10\%$ 20-100% load change (3.3 V models $\pm 20\%$)
- Setpoint Accuracy • $\pm 5\%$
- Ripple & Noise • 60 mV pk-pk
- Temperature Coefficient • 0.02%/°C
- Short Circuit Protection • 1 s max
- Maximum Capacitive Load • 470 μ F

General

- Efficiency • See table
- Isolation Voltage • 1000VDC (for higher isolation options - see note 2)
- Isolation Capacitance • 60 pF typical
- Switching Frequency • Variable
- MTBF • >1 Mhrs

Environmental

- Operating Temperature • -40 °C to +85 °C
- Storage Temperature • -40 °C to +125 °C
- Case Temperature • 100 °C max
- Cooling • Convection-cooled

Notes

- For DIP package, replace 'S' with 'D' in model number.
- Add suffix '-H' to model number for 3000 VDC isolation. For higher VDC isolation, add suffix '-Hx' to model number where x=4 for 4000 VDC isolation, x=5 for 5200 VDC isolation and x=6 for 6000 VDC isolation.
- Outputs will power-trade.
- 0.31" (9.65 mm) for all '-Hx' versions.
- All dimensions in inches (mm).
- Operation at no load will not damage unit but it may not meet all specifications.

Input Voltage	No Load Input Current	Output Voltage	Output Current ⁽⁶⁾	Efficiency	Model Number ^(1,2)
5 VDC	30 mA	± 3.3 V	± 200 mA	65%	IH0503S
	30 mA	± 5.0 V	± 200 mA	72%	IH0505S†
	30 mA	± 9.0 V	± 111 mA	77%	IH0509S†
	30 mA	± 12.0 V	± 84 mA	78%	IH0512S†
	30 mA	± 15.0 V	± 66 mA	80%	IH0515S†
12 VDC	30 mA	± 24.0 V	± 42 mA	80%	IH0524S
	20 mA	± 3.3 V	± 200 mA	67%	IH1203S
	20 mA	± 5.0 V	± 200 mA	75%	IH1205S†
	20 mA	± 9.0 V	± 111 mA	77%	IH1209S†
	20 mA	± 12.0 V	± 84 mA	82%	IH1212S†
24 VDC	20 mA	± 15.0 V	± 66 mA	82%	IH1215S†
	20 mA	± 24.0 V	± 42 mA	82%	IH1224S
	10 mA	± 3.3 V	± 200 mA	68%	IH2403S
	10 mA	± 5.0 V	± 200 mA	75%	IH2405S†
	10 mA	± 9.0 V	± 111 mA	80%	IH2409S†
48 VDC	10 mA	± 12.0 V	± 84 mA	82%	IH2412S†
	10 mA	± 15.0 V	± 66 mA	82%	IH2415S†
	10 mA	± 24.0 V	± 42 mA	82%	IH2424S
	6 mA	± 3.3 V	± 200 mA	60%	IH4803S
	6 mA	± 5.0 V	± 200 mA	73%	IH4805S
48 VDC	6 mA	± 9.0 V	± 111 mA	77%	IH4809S
	6 mA	± 12.0 V	± 84 mA	80%	IH4812S
	6 mA	± 15.0 V	± 66 mA	80%	IH4815S
	6 mA	± 24.0 V	± 42 mA	80%	IH4824S

† Available from Farnell, see pages 204-206.

Mechanical Details

