

2 Watts

IH Series



- Dual Output
- SIP Package
- DIP Package
- 1000 VDC Isolation
- Optional 3000 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	• 200 mV pk-pk
Input Reverse Voltage Protection	• None

Output

Output Voltage	• See table
Minimum Load	• None
Line Regulation	• 1.2%/1% ΔV_{in}
Load Regulation	• $\pm 8\%$ 20-100% load change
Setpoint Accuracy	• $\pm 5\%$
Ripple & Noise	• 75 mV pk-pk
Temperature Coefficient	• 0.02%/°C
Short Circuit Protection	• 1 s max
Maximum Capacitive Load	• $\pm 390 \mu\text{F}$

General

Efficiency	• See table
Isolation Voltage	• 1000 VDC (3000 VDC -H option)
Isolation Capacitance	• 60 pF typical
Switching Frequency	• 80 kHz typical

Environmental

Operating Temperature	• -40 to +85 °C
Storage Temperature	• -40 to +125 °C
Case Temperature	• 100 °C max
Cooling	• Free-air convection

Notes

1. For DIP package, replace 'S' with 'D' in model number.
2. Add suffix '-H' to model number for 300VDC isolation.
3. Outputs will power-trade.
4. 0.31" (9.65mm) for 3000V versions.
5. All dimensions in inches (mm)

Input Voltage	No Load Input Current	Output Voltage	Output Current ⁽³⁾	Efficiency	Model Number ^(1,2)
5 VDC	25 mA	± 3.3 V	± 200 mA	75%	IH0503S
	35 mA	± 5.0 V	± 200 mA	75%	IH0505S†
	28 mA	± 9.0 V	± 111 mA	75%	IH0509S†
	30 mA	± 12.0 V	± 84 mA	75%	IH0512S†
	30 mA	± 15.0 V	± 66 mA	75%	IH0515S†
	40 mA	± 24.0 V	± 42 mA	75%	IH0524S
12 VDC	12 mA	± 3.3 V	± 200 mA	75%	IH1203S
	20 mA	± 5.0 V	± 200 mA	75%	IH1205S†
	15 mA	± 9.0 V	± 111 mA	75%	IH1209S†
	15 mA	± 12.0 V	± 84 mA	75%	IH1212S†
	18 mA	± 15.0 V	± 66 mA	75%	IH1215S†
24 VDC	20 mA	± 24.0 V	± 42 mA	75%	IH1224S
	5 mA	± 3.3 V	± 200 mA	75%	IH2403S
	7 mA	± 5.0 V	± 200 mA	75%	IH2405S†
	7 mA	± 9.0 V	± 111 mA	75%	IH2409S†
	8 mA	± 12.0 V	± 84 mA	75%	IH2412S†
48 VDC	8 mA	± 15.0 V	± 66 mA	75%	IH2415S†
	8 mA	± 24.0 V	± 42 mA	75%	IH2424S
	4 mA	± 3.3 V	± 200 mA	75%	IH4803S
	6 mA	± 5.0 V	± 200 mA	75%	IH4805S
	6 mA	± 9.0 V	± 111 mA	75%	IH4809S
48 VDC	6 mA	± 12.0 V	± 84 mA	75%	IH4812S
	6 mA	± 15.0 V	± 66 mA	75%	IH4815S
	6 mA	± 24.0 V	± 42 mA	75%	IH4824S
	6 mA	± 24.0 V	± 42 mA	75%	IH4824S

† Available from Farnell InOne. See pages 236-237

Mechanical Details

