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 ±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% Δ Vin
Load Regulation	±8% 20-100% load change
Setpoint Accuracy	±5%
Ripple & Noise	75 mV pk-pk
Temperature Coefficient	0.02%/°C
Short Circuit Protection	1 s max
Maximum Capacitive Load	±390 µF

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†
	20 mA	±24.0 V	±42 mA	75%	IH1224S
24 VDC	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†
	8 mA	±15.0 V	±66 mA	75%	IH2415S†
	8 mA	±24.0 V	±42 mA	75%	IH2424S
48 VDC	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
	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

† Available from Farnell InOne. See pages 236-237

Mechanical Details