2 Watt
IG Series

- Single & Dual Output
- SIP Package
- Industry Standard Pinout
- 6000 VDC Isolation
- –40 °C to +85 °C Operation
- MTBF >3.5 MHrs
- 3 Year Warranty

Specification

Input

Input Voltage Range	• Nominal ±10%
Input Reverse Voltage Protection	• None

Output

Output Voltage	• See table
Minimum Load	• 10%
Line Regulation	• 1.2%/1% Δ Vin
Load Regulation	• ±15% for a 10-100% load change
Setpoint Accuracy	• 100-110% of nominal at 10% load
Ripple & Noise	• 250 mV pk-pk 20 MHz bandwidth
Temperature Coefficient	• 0.03%/°C
Short Circuit Protection	• Continuous

General

Efficiency	• See table
Isolation Voltage	• 6000 VDC (tested for 1 min)
Isolation Resistance	• 10^9 Ω
Isolation Capacitance	• 10 pF max
Switching Frequency	• 5 V input: 45 kHz, 12 V/24 V input: 50 kHz typical at nominal input, full load
MTBF	• >3.5 MHrs to MIL-HDBK-217F at 25 °C, GB

Environmental

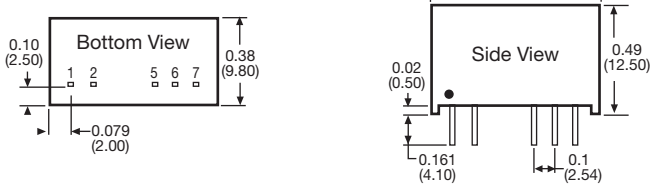
Operating Temperature	• -40 °C to +85 °C
Storage Temperature	• -55 °C to +125 °C
Case Temperature	• 105 °C max
Cooling	• Convection-cooled

Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number[1]
5 VDC	5.0 V	400 mA	74%	IG0505SA
	9.0 V	222 mA	77%	IG0509SA
	12.0 V	167 mA	77%	IG0512SA
	15.0 V	133 mA	77%	IG0515SA
12 VDC	5.0 V	400 mA	75%	IG1205SA
	9.0 V	222 mA	78%	IG1209SA
	12.0 V	167 mA	80%	IG1212SA
	15.0 V	133 mA	78%	IG1215SA
24 VDC	5.0 V	400 mA	75%	IG2405SA
	9.0 V	222 mA	77%	IG2409SA
	12.0 V	167 mA	80%	IG2412SA
	15.0 V	133 mA	79%	IG2415SA

Notes

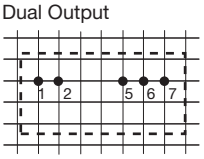
1. For dual output versions, delete 'A' from part number and split current equally between outputs.

Mechanical Details

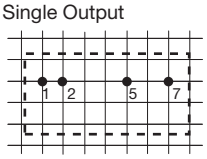


Recommended footprint
Top view grid: 0.1 x 0.1 in (2.54 x 2.54 mm)
Diameter: 0.39" (1.0 mm)

Dual Output



Single Output



Pin	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
5	0 V	-Vo
6	No Pin	0 V
7	+Vo	+Vo

Notes

Dimensions in inches (mm)
Weight: 0.009 lbs (4.3 g)
Tolerance: ±0.010 (±0.25)

Pin diameter: 0.020 x 0.012 (0.50 x 0.30)
Pin tolerance: ±0.004 (±0.10 mm)