



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

Specification

Input

- | | |
|----------------------------------|----------------|
| Input Voltage Range | • Nominal ±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 |
| Line Regulation | • 1.2%/1% Δ Vin |
| Load Regulation | • ±10%, 20-100% load change, 3.3 V models: ±20% |
| Setpoint Accuracy | • ±3% |
| Ripple & Noise | • 60 mV pk-pk, 20 MHz BW |
| Temperature Coefficient | • 0.02%/°C |
| Short Circuit Protection | • 1 s max |
| Maximum Capacitive Load | • 220 μ F |

General

- | | |
|-----------------------|---|
| Efficiency | • See table |
| Isolation Voltage | • 1000 VDC minimum (3000 VDC -H option) |
| Isolation Resistance | • 10 ⁹ Ω |
| Isolation Capacitance | • 60 pF typical |
| Switching Frequency | • 50 kHz variable |

Environmental

- | | |
|-----------------------|---|
| Operating Temperature | • -40 to +85 °C, derate linearly to 0 at 100 °C |
| Storage Temperature | • -40 to +125 °C |
| Case Temperature | • 100 °C max |
| Cooling | • Free-air convection |

Notes

1. Add suffix 'H' to model for 3000VDC isolation.
2. All dimensions in inches (mm).

Input Voltage	No Load Input Current	Output Voltage	Output Current	Efficiency	Model Number ⁽¹⁾
5 VDC	35 mA	3.3 V	400 mA	71%	IL0503S
	35 mA	5.0 V	400 mA	77%	IL0505S ^T
	35 mA	9.0 V	222 mA	77%	IL0509S ^T
	35 mA	12.0 V	168 mA	80%	IL0512S ^T
	35 mA	15.0 V	132 mA	82%	IL0515S ^T
	35 mA	24.0 V	84 mA	82%	IL0524S
12 VDC	20 mA	3.3 V	400 mA	72%	IL1203S
	20 mA	5.0 V	400 mA	78%	IL1205S ^T
	20 mA	9.0 V	222 mA	82%	IL1209S ^T
	20 mA	12.0 V	168 mA	84%	IL1212S ^T
	20 mA	15.0 V	132 mA	84%	IL1215S ^T
	25 mA	24.0 V	84 mA	82%	IL1224S
24 VDC	10 mA	3.3 V	400 mA	74%	IL2403S
	10 mA	5.0 V	400 mA	80%	IL2405S
	10 mA	9.0 V	222 mA	84%	IL2409S
	10 mA	12.0 V	168 mA	84%	IL2412S
	10 mA	15.0 V	132 mA	84%	IL2415S
	10 mA	24.0 V	84 mA	84%	IL2424S
48 VDC	7 mA	3.3 V	400 mA	72%	IL4803S
	7 mA	5.0 V	400 mA	78%	IL4805S
	7 mA	9.0 V	222 mA	82%	IL4809S
	7 mA	12.0 V	168 mA	80%	IL4812S
	7 mA	15.0 V	132 mA	82%	IL4815S
	7 mA	24.0 V	84 mA	82%	IL4824S

^T Available from Farnell InOne. See pages 236-237

Mechanical Details

