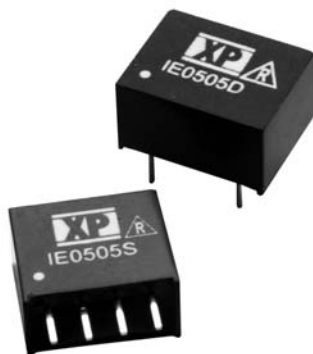


1 Watt

IE Series



- Single 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
Setpoint Accuracy	• $\pm 5\%$
Ripple & Noise	• 100 mV pk-pk
Temperature Coefficient	• 0.02%/°C
Short Circuit Protection	• 1 s max
Maximum Capacitive Load	• 200 μ F

General

Efficiency	• See table
Isolation Voltage	• 1000 VDC minimum (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' in model number with 'D'.
2. Add suffix 'H' to model number for 3000VDC isolation.
3. For 48VDC in, specify model number as IE48XXS.
4. All dimensions in inches (mm).

Input Voltage ⁽³⁾	No Load Input Current	Output Voltage	Output Current	Efficiency	Model Number ^(1,2)
3.3 VDC	25 mA	3.3 V	300 mA	75%	IE0303S
	25 mA	5.0 V	200 mA	78%	IE0305S
	30 mA	9.0 V	111 mA	78%	IE0309S
	45 mA	12.0 V	84 mA	78%	IE0312S
	40 mA	15.0 V	66 mA	78%	IE0315S
	40 mA	24.0 V	42 mA	78%	IE0324S
5 VDC	16 mA	3.3 V	300 mA	75%	IE0503S
	25 mA	5.0 V	200 mA	77%	IE0505S†
	26 mA	9.0 V	111 mA	80%	IE0509S
	25 mA	12.0 V	84 mA	77%	IE0512S†
	25 mA	15.0 V	66 mA	77%	IE0515S†
	35 mA	24.0 V	42 mA	77%	IE0524S
12 VDC	12 mA	3.3 V	300 mA	70%	IE1203S
	16 mA	5.0 V	200 mA	78%	IE1205S†
	10 mA	9.0 V	111 mA	78%	IE1209S
	18 mA	12.0 V	84 mA	78%	IE1212S†
	17 mA	15.0 V	66 mA	78%	IE1215S†
	25 mA	24.0 V	42 mA	78%	IE1224S
24 VDC	5 mA	3.3 V	300 mA	74%	IE2403S
	8 mA	5.0 V	200 mA	78%	IE2405S†
	8 mA	9.0 V	111 mA	78%	IE2409S
	8 mA	12.0 V	84 mA	78%	IE2412S†
	8 mA	15.0 V	66 mA	78%	IE2415S†
	9 mA	24.0 V	42 mA	78%	IE2424S

† Available from Farnell InOne.

Mechanical Details

