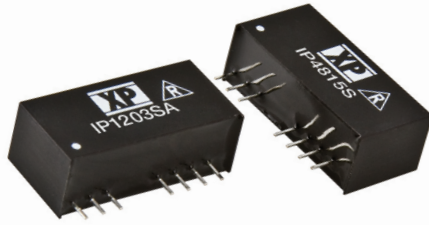


3 Watts IP Series



- Regulated Single & Dual Output
- Wide 4:1 Input Range
- SIP Package
- 1600 VDC Isolation
- -40 °C to 85 °C Operation
- Remote On/Off
- 3 Year Warranty

Specification

Input

- Input Voltage Range • See table
- Input Reflected Ripple Current • 20 mA pk-pk through 12 μ H inductor and 47 μ F capacitor, 5 Hz to 20 MHz
- Input Filter • Capacitor
- Input Surge • 12 V models: 25 VDC for 100 ms
24 V models: 50 VDC for 100 ms
48 V models: 100 VDC for 100 ms

Output

- Output Voltage • See table
- Minimum Load • None⁽¹⁾
- Line Regulation • $\pm 0.2\%$ max
- Load Regulation • $\pm 1.0\%$ max for a 10-100% load change⁽¹⁾
- Setpoint Accuracy • $\pm 1\%$ max
- Ripple & Noise • 30 mV pk-pk max, 20 MHz bandwidth
- Temperature Coefficient • 0.02%/°C
- Short Circuit Protection • Continuous with auto recovery (foldback)
- Cross Regulation • $\pm 5\%$ on dual output models⁽²⁾
- Remote On/Off • Apply 2 to 4 mA to pin 3 to turn off output

General

- Efficiency • See table
- Isolation Voltage • 1600 VDC
- Isolation Resistance • $10^9 \Omega$
- Isolation Capacitance • 200 pF
- Switching Frequency • 100-600 kHz variable
- MTBF • >1.7 Mhrs to MIL-HDBK-217F at 25 °C, GB

Environmental

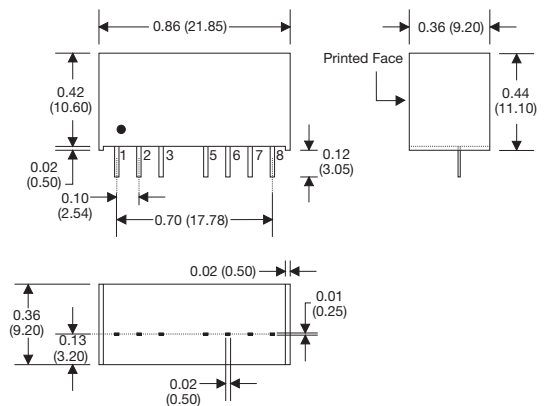
- Operating Temperature • -40 °C to +85 °C, derate from 100% load at 70 °C to 30% load at 85 °C
- Storage Temperature • -40 °C to +125 °C
- Case Temperature • 100 °C max
- Cooling • Convection cooled

Notes

1. Operation at no load will not damage the converter but may not meet all specifications.
2. When one output is set to 100% load and the other varies between 25%-100% load.
3. Pin pitch tolerance ± 0.014 (± 0.35)
4. Case tolerance ± 0.02 (0.5)
5. Weight: 0.014 lbs (6.5 g)
6. All dimensions in inches (mm)

Input Voltage	Output Voltage	Output Current	No Load Input Current	Max Capacitive Load	Efficiency	Model Number
4.5-18.0 V	3.3 V	700 mA	40 mA	1760 μ F	72%	IP1203SA
	5.0 V	600 mA	40 mA	1000 μ F	77%	IP1205SA
	12.0 V	250 mA	40 mA	170 μ F	81%	IP1212SA
	15.0 V	200 mA	40 mA	110 μ F	81%	IP1215SA
	± 5.0 V	± 300 mA	40 mA	± 470 μ F	77%	IP1205S
	± 12.0 V	± 125 mA	40 mA	± 100 μ F	80%	IP1212S
9.0-36.0 V	3.3 V	700 mA	25 mA	1760 μ F	75%	IP2403SA
	5.0 V	600 mA	25 mA	1000 μ F	79%	IP2405SA
	12.0 V	250 mA	25 mA	170 μ F	82%	IP2412SA
	15.0 V	200 mA	25 mA	110 μ F	82%	IP2415SA
	± 5.0 V	± 300 mA	25 mA	± 470 μ F	79%	IP2405S
	± 12.0 V	± 125 mA	25 mA	± 100 μ F	79%	IP2412S
18.0-75.0 V	3.3 V	700 mA	15 mA	1760 μ F	74%	IP4803SA
	5.0 V	600 mA	15 mA	1000 μ F	78%	IP4805SA
	12.0 V	250 mA	15 mA	170 μ F	80%	IP4812SA
	15.0 V	200 mA	15 mA	110 μ F	81%	IP4815SA
	± 5.0 V	± 300 mA	15 mA	± 470 μ F	79%	IP4805S
	± 12.0 V	± 125 mA	15 mA	± 100 μ F	79%	IP4812S
	± 15.0 V	± 100 mA	15 mA	± 47 μ F	79%	IP4815S

Mechanical Details



PIN CONNECTIONS					
Pin	Single	Dual	Pin	Single	Dual
1	-V Input	-V Input	5	N.C.	N.C.
2	+V Input	+V Input	6	+V Output	+V Output
3	Remote On/Off	Remote On/Off	7	-V Output	Common
4	No Pin	No Pin	8	N.C.	-V Output

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