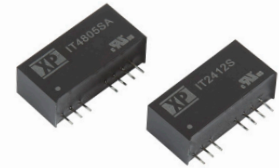


3W

DC-DC converters

The IT series is housed in a SIP9 plastic case. Featuring a 4:1 input voltage range of 9 to 36VDC or 18 to 75VDC with both single and dual outputs, singles have 3.3, 5, 12 or 15VDC with duals having ± 5 , ± 12 & ± 15 VDC.

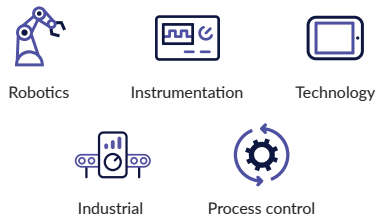
The 3W IT provides 1.5kVDC isolation between input and output, the output has short circuit protection, remote On/Off is standard. The operating temperature range is from -40°C to $+100^{\circ}\text{C}$, with derating above $+75^{\circ}\text{C}$.



Features

- ▶ Regulated single & dual outputs
- ▶ 4:1 input range
- ▶ Single outputs 3.3 to 15VDC
- ▶ Dual outputs ± 5.0 to ± 15 VDC
- ▶ SIP9 package
- ▶ 1.5kVDC isolation
- ▶ Remote On/Off
- ▶ -40°C to $+100^{\circ}\text{C}$ operating temperature
- ▶ Full power to $+75^{\circ}\text{C}$
- ▶ 3 year warranty

Applications



Dimensions

26.0 x 12.5 x 9.3 (1.02" x 0.49" x 0.36")

Models & ratings

Model number ⁽¹⁾	Input voltage	Output voltage	Output current	No load input current ⁽¹⁾	Max capacitive load	Efficiency
IT2403SA	9.0-36.0VDC	3.3VDC	700mA	8mA	2200 μF	77%
IT2405SA		5.0VDC	600mA	10mA	1000 μF	82%
IT2412SA		12.0VDC	250mA	10mA	165 μF	84%
IT2415SA		15.0VDC	200mA	10mA	100 μF	85%
IT2405S		± 5.0 VDC	± 300 mA	10mA	± 470 μF	81%
IT2412S		± 12.0 VDC	± 125 mA	10mA	± 100 μF	84%
IT2415S		± 15.0 VDC	± 100 mA	15mA	± 47 μF	84%

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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.

Models & ratings

Model number ⁽¹⁾	Input voltage	Output voltage	Output current	No load input current ⁽¹⁾	Max capacitive load	Efficiency
IT4803SA	18.0-75.0VDC	3.3VDC	700mA	8mA	2200µF	75%
IT4805SA		5.0VDC	600mA	8mA	1000µF	81%
IT4812SA		12.0VDC	250mA	8mA	165µF	84%
IT4815SA		15.0VDC	200mA	10mA	100µF	84%
IT4805S		±5.0VDC	±300mA	8mA	±470µF	81%
IT4812S		±12.0VDC	±125mA	8mA	±100µF	84%
IT4815S		±15.0VDC	±100mA	10mA	±47µF	83%

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.

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & conditions
Input voltage range	See models and ratings table				
Input reflected ripple current		20		mA pk-pk	12µH inductor and 47µF capacitor, 5Hz to 20MHz
Input surge		25		VDC	12V models
		50			24V models for 100ms
		100			48V models for 100ms
Input filter	Capacitor				

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & conditions
Output voltage	See models & ratings table				
Minimum load	0			%	Operation at no load will not damage unit but it may not meet all specifications.
Line regulation			±0.5	%	
Load regulation			±0.5	%	10-100% load change, operation at no load will not damage unit but it may not meet all specifications.
Setpoint accuracy			±1.0	%	
Ripple & noise		50		mV pk-pk	20MHz bandwidth
Temperature coefficient		0.02		%/°C	
Short circuit protection	Continuous with auto recovery (hiccup)				
Cross regulation		±5		%	On dual output models, when one output is set to 100% load and the other varies between 25%-100% load.
Remote on/off	Apply 2.7 to 15VDC to pin 3 to turn output off				

