SIL15C Series



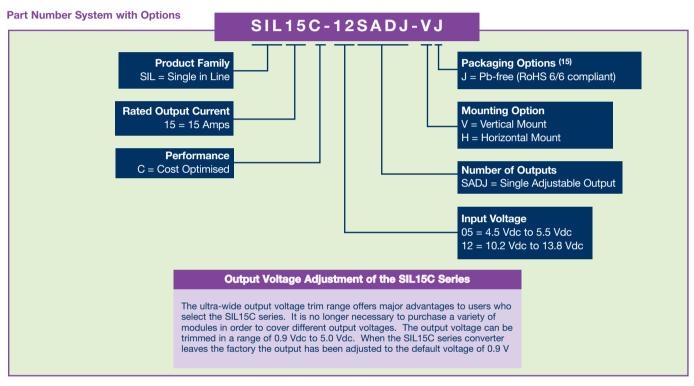
5 Vin and 12 Vin single output

DC-DC CONVERTERS C Class Non-isolated 2

For the most current data and application support visit www.artesyn.com/powergroup/products.htm

NEW Product

OUTPUT POWER	INPUT	OVP	OUTPUT	OUTPUT CURRENT	OUTPUT CURRENT	EFFICIENCY	REGUL		MODEL
(MAX.)	VOLTAGE		VOLTAGE (12)	(MIN.)	(MAX.)	(TYP.)	LINE	LOAD	NUMBER (8,13,14,15)
50 W	4.5-5.5 Vdc	N/A	0.9-3.3 Vdc	0 A	15 A	89%	±0.2%	±0.5%	SIL15C-05SADJ-VJ
75 W	10.2-13.8 Vdc	N/A	0.9-5.0 Vdc	0 A	15 A	91%	±0.2%	±0.5%	SIL15C-12SADJ-VJ



Notes

- 1 Measured as per recommended set-up. Cin = 270 μ F (20 m Ω esr max, Cout = 680 μ F (10 m Ω esr max).
- 2 di/dt = 10 A/ μ s, Vin = Nom, Tc = 25 °C, load change = 0.50 lo max. to 0.75 lo max. and 0.75 lo max. to 0.50 lo max.
- 3 External input fusing is recommended.
- Measured with external filter. See Application Note 131 for details.
- 5 Uses external resistor from trim pin to output ground. Min value = 485 Ω for 5 V model, 280 Ω for 12 V model. See Application Note 131 for details.
- 6 Signal line assumed <3 m in length
- 7 This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.
- 8 The standard unit with the suffix '-V' is for vertical mounting. To order a unit with horizontal mounting, please add the suffix '-H' to the model number, e.g. SIL15C-05SADJ-HJ.
- 9 Power-up is the time from application of dc input to Power Good enabled. Remote ON/OFF is from ON/OFF asserted high to power good enabled.
- 10 See Application Note 131 for operation above 50 °C.
- 11 See Application Note 131 for ripple current requirements.
- 12 These models have a wide trim output. 5 Vin has an output of 0.9 Vdc to 3.3 Vdc and 12 Vin has an output of 0.9 Vdc to 5 Vdc. An external resistor adjusts the output voltage.
- 13 To order a unit with a pin length of 0.150", please add suffix 'P4' to the model number, e.g. SIL15C-05SADJ-HP4J.
- 14 TSE RoHS 5/6 (non Pb-free) compliant versions may be available on special request, please contact your local sales representative for details.
- NOTICE: Some models do not support all options. Please contact your local Artesyn representative or use the on-line model number search tool at http://www.artesyn.com/powergroup/products.htm to find a suitable alternative.

Ripple and Noise Specification

Model	Output Voltage	Pk - Pk	RMS
5 V input models	0.9-2.5 Vdc	30 mV	15 mV
	3.3 Vdc	40 mV	15 mV
12 V input models	0.9-2.5 Vdc	50 mV	20 mV
	3.3-5 Vdc	50 mV	20 mV

SIL15C Series

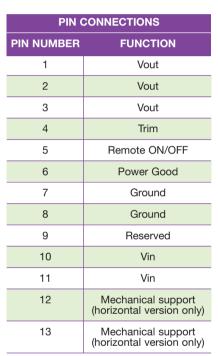


5 Vin and 12 Vin single output

DC-DC CONVERTERS C Class Non-isolated 3

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NEW Product



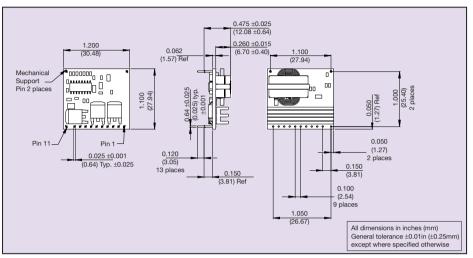


Figure 1: Mechanical Drawing - Horizontal Mount Version

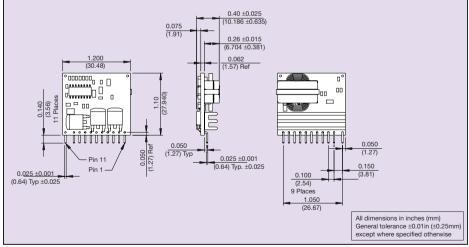


Figure 2: Mechanical Drawing - Vertical Mount Version

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Please consult our website for the following items: v Application Note v Longform Datasheet

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