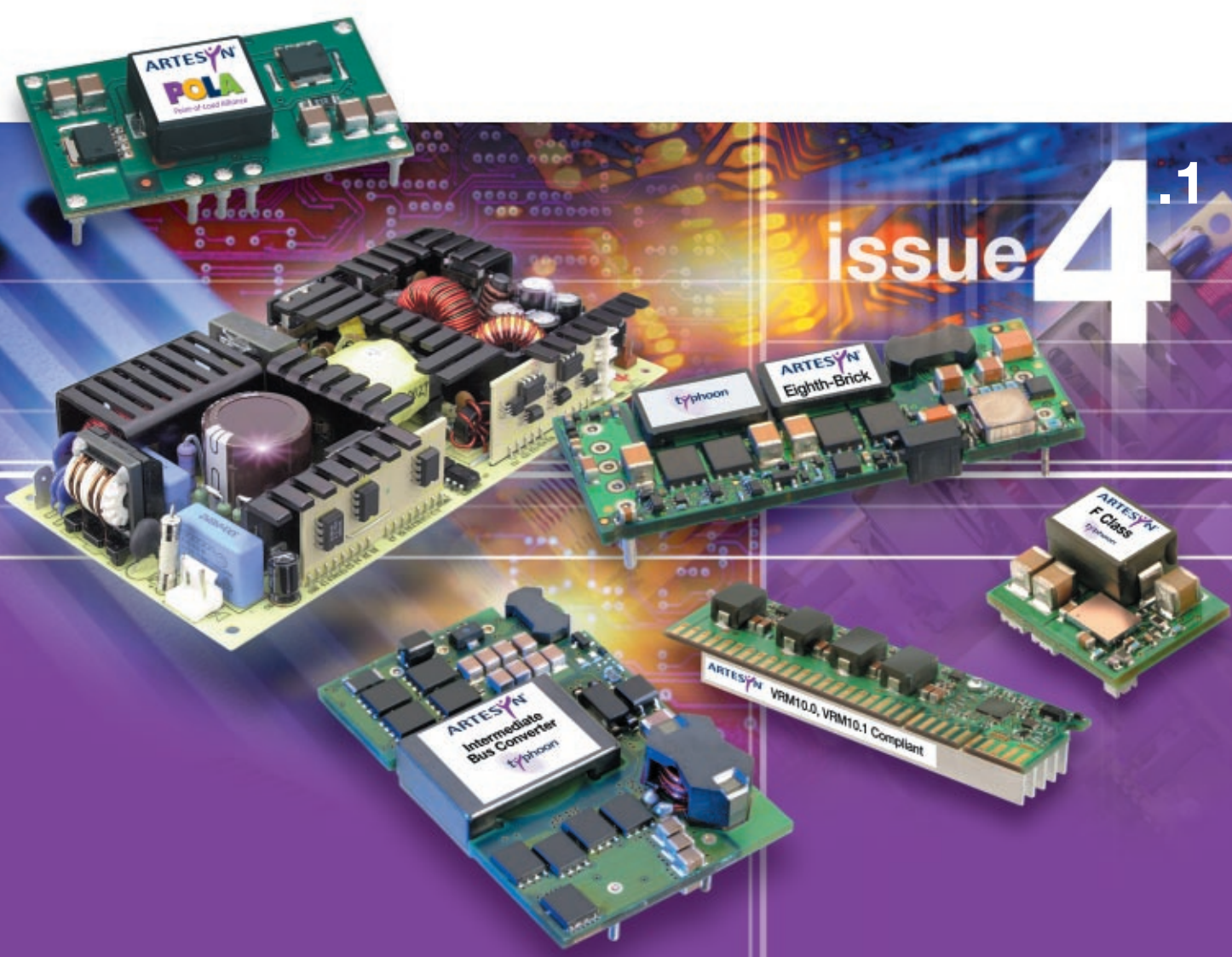


# Power Conversion Products

## Quick-select Guide

issue 4.1



# Finding the ideal power solution is easy...

Welcome to the Quick-select Guide of Artesyn Technologies' Power Group. This guide provides you with a fast, easy-to-use means of finding the ideal power source for your application. The tables cover all the main DC/DC converters and AC/DC power supplies in our standard product ranges, so you can quickly home in on precisely what you need. Then, just download detailed information from our web site, and contact your local sales representative or distributor for a sample.

## Need a non-standard product?

If you can't see the exact power source you need in this guide, just call. Artesyn offers some of the most flexible power supply design and customization services in the industry. These range from standard product modification through to full custom designs, so even low volume OEMs can afford to specify the optimal power supply for their applications. And just because you need something special does not mean a lengthy wait - our fast-turnaround engineering services can deliver modified or custom products in very short timeframes.

Our customization capabilities cover AC/DC and DC/DC power conversion products with single and multiple outputs, spanning a power range from a few watts to several kilowatts. We are able to deliver cost-effective custom products very quickly, because they are based on design-ready platforms and fully-proven circuits, using latest-generation technology. Design-for-manufacture is a key consideration at Artesyn, and we use the latest simulation techniques and computer-aided design tools to help speed development and ensure product quality.

## Quality commitment

All our products meet international safety standards, as well as rigorous international regulations on electrical noise and EMC. We also offer units with full medical safety approvals to EN6061 and UL2601. All our manufacturing plants are certified to the international ISO9000 standard, and the entire organization is committed to a total quality philosophy. We operate a worldwide component procurement program to ensure product quality and on-time delivery, supported by advanced information systems for processing, tracking and delivering customers' orders.

## Artesyn

Artesyn Technologies' Power Group is a world-class supplier of power conversion solutions to the computing, communications and IT infrastructure industries. Our customers range from small OEMs to large multinational organizations, and include many of the world's leading blue-chip companies. The company is one of two business groups of Artesyn Technologies and operates on a global scale, with design and manufacturing facilities at strategic locations throughout Asia Pacific, Europe and North America.

## Headquarters

Boca Raton, FL

## Design Centers

Austria, Vienna  
China, Zhongshan  
Eden Prairie, MN  
Framingham, MA  
Hong Kong  
Ireland, Youghal  
Tucson, AZ  
Westminster, CO

## Manufacturing Facilities

China, Zhongshan (High-volume)  
Hungary, Tatabanya (High-volume)  
Germany, Chemnitz  
Redwood Falls, MN







# Leading-edge power conversion solutions for communications

## Plug-in solutions for today's OEMs

Artesyn Technologies' Power Group produces industry-leading board-mounted DC/DC converters and AC/DC power supplies, and is the world leader in power conversion products for systems employing Distributed Power Architectures (DPA).

## A wealth of choice

Many of our latest power conversion products offer optimization choices. Regardless of whether cost, performance, power density, transient response or sourcing flexibility is your primary concern, you will find we offer exactly the right product to match your specific requirement.

We provide innovation across the entire DPA and IBA spectrum: from traditional 'brick' DC/DC converters and high efficiency intermediate bus converters (IBCs), to non-isolated point-of-load (POL) converters for the latest high-end processors and DSPs. Among the advances introduced in this guide are two entirely new classes of POL converters - one optimized for fast transient response and current density, the other for multi-sourcing flexibility and power sequencing capabilities. Our Typhoon™ family of high-performance power conversion products is expanding rapidly, as you can see from the list opposite.

Artesyn Technologies' Power Group offers one of the broadest arrays of power conversion products in the industry. Our standard board-mounted DC/DC converters cover a power range of 2 to 700W, and include open-frame, packaged and encapsulated units. And our standard AC/DC supplies cover a range of 19 to 150W - though we also produce custom products with outputs as high as 6kW - and include open-frame and enclosed units.

## Make Typhoon™ your first choice in design

Many of Artesyn's latest-generation board-mounted power conversion modules carry the Typhoon™ brand name, symbolizing the powerful forces behind their development and use. This rapidly-growing product family includes some of the most technologically advanced DC/DC brick converters, IBCs and non-isolated POL converters on the market.

A quick glance through this guide will show that there are now more than 200 Typhoon™ products in our portfolio, all designed to push the performance envelope in terms of efficiency, power density and size. Whenever board real estate is critical or inter-board spacing is minimal, Typhoon™ should be the first design choice you make. Highlights include:

- Eighth-brick converters with up to 100W power capability, offering output voltages as low as 1.2V and current ratings to 50A.
- Quarter-brick converters spanning a 36 to 200W power range, single- and dual-output configurations, with voltages as low as 1.2V and current ratings to 100A.
- POL converters with ultra-small form factors and very high current densities, capable of supporting transient step changes in load current of more than 300A/μs.
- IBCs with telecom-standard inputs and 168W power ratings, plus 240W and 300W models optimized for the enterprise environment.



*In nature, a typhoon represents one of the most awesome power conversion events known to man. Drawing vast amounts of energy from the warm ocean waters, the typhoon transforms and focuses the energy into a single, high intensity event. Energy is converted and then re-distributed onto other locations on the Earth's surface in the form of winds and rain.*

*There is an obvious analogy with power conversion products, and Artesyn's Typhoon™ brand embodies the essence of this process. Our new, advanced board-mounted power conversion products extract power from a higher-level voltage on a card edge or a voltage bus. The converters efficiently transform and distribute this energy in the form of dynamic, lower voltage power required to drive today's complex silicon.*

# Non-isolated Point of Load DC/DC Converters

We produce an exceptionally wide range of general-purpose non-isolated point-of-load (POL) converters for distributed power applications, as well as a growing number of special-purpose POLs for powering loads such as memories and microprocessors.

## General-Purpose, Point of Load DC/DC Converters

Many of today's board-level power distribution issues cannot be resolved by centralized power architectures. Most system and board designers consequently now use some form of distributed power architecture (DPA) for powering all the ICs on the board. However, IC operating voltages are continually decreasing, and boards often need to cater for a large number of different IC supply voltages. Designers are addressing these technical issues by moving further down the DPA road, incorporating POL converters to power individual ICs. This technically superior and highly flexible approach is invariably more cost-effective than a DPA based solely on isolated converters.

We offer four categories of general-purpose non-isolated POL converter modules, optimized for low cost, highest performance, fastest transient response or sourcing flexibility.

### Choose E class when performance is key

Extremely efficient, with current densities of up to 24A/in<sup>2</sup> – they provide ideal solutions where space is at a premium or profile must be low. Very low internal power dissipation means minimal thermal design concerns. The SIL10E, for example, delivers 10A at 82°C with no airflow.

General-Purpose E Class Point of Load DC/DC Converters

	Output Current	Input Voltage	Output Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options
NEW	5A	3.0 to 5.5VDC	0.75 to 3.63V <sup>(3)</sup>	94%	0.90 x 0.28 x 0.40	SIL05E-05W3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	5A	3.0 to 5.5VDC	1.5V	87.5%	0.80 x 0.45 x 0.26	SMT05E-05S1V5	-R, -T
NEW	5A	3.0 to 5.5VDC	0.75 to 3.63V <sup>(3)</sup>	94%	0.80 x 0.45 x 0.26	SMT05E-05W3V3	-R, -T
	5A	10 to 14VDC	0.8 to 3.63V <sup>(3)</sup>	91%	0.80 x 0.45 x 0.24	SMT05E-12W3V3	-R, -T
	10A	3.0 to 5.5VDC	0.8V	83%	2.00 x 0.31 x 0.50	SIL10E-05S0V8-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	10A	3.0 to 5.5VDC	1.0V	86%	2.00 x 0.31 x 0.50	SIL10E-05S1V0-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	10A	3.0 to 5.5VDC	1.2V	88%	2.00 x 0.31 x 0.50	SIL10E-05S1V2-V <sup>(1)</sup>	R, -H <sup>(2)</sup> , 02
	10A	3.0 to 5.5VDC	1.5V	90%	2.00 x 0.31 x 0.50	SIL10E-05S1V5-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	10A	3.0 to 5.5VDC	1.8V	92%	2.00 x 0.31 x 0.50	SIL10E-05S1V8-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	10A	3.0 to 5.5VDC	2.0V	93%	2.00 x 0.31 x 0.50	SIL10E-05S2V0-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	10A	3.0 to 5.5VDC	2.5V	94%	2.00 x 0.31 x 0.50	SIL10E-05S2V5-V <sup>(1)</sup>	R, -H <sup>(2)</sup> , 02
	10A	4.5 to 5.5VDC	3.3V	95%	2.00 x 0.31 x 0.50	SIL10E-05S3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	10A	4.5 to 5.5VDC	0.8 to 3.63V <sup>(3)</sup>	95%	2.00 x 0.31 x 0.50	SIL10E-05W3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	10A	10 to 14VDC	1.2V	84%	2.00 x 0.31 x 0.50	SIL10E-12S1V2-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	10A	10 to 14VDC	1.5V	86%	2.00 x 0.31 x 0.50	SIL10E-12S1V5-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	10A	10 to 14VDC	1.8V	88%	2.00 x 0.31 x 0.50	SIL10E-12S1V8-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	10A	10 to 14VDC	2.5V	91%	2.00 x 0.31 x 0.50	SIL10E-12S2V5-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	10A	10 to 14VDC	3.3V	94%	2.00 x 0.31 x 0.50	SIL10E-12S3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	10A	10 to 14VDC	0.8 to 3.63V <sup>(3)</sup>	94%	2.00 x 0.31 x 0.50	SIL10E-12W3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	10A	10 to 14VDC	0.8 to 3.63V <sup>(3)</sup>	94%	1.30 x 0.53 x 0.32	SMT10E-12W3V3	-R, -T
	15A	3.0 to 5.5VDC	1.8V	89%	2.00 x 0.31 x 0.50	SIL15E-05S1V8-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	15A	3.0 to 5.5VDC	2.5V	92%	2.00 x 0.31 x 0.50	SIL15E-05S2V5-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	15A	4.5 to 5.5VDC	3.3V	94%	2.00 x 0.31 x 0.50	SIL15E-05S3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	15A	3.0 to 5.5VDC	0.8 to 3.63V <sup>(3)</sup>	94% <sup>(4)</sup>	2.00 x 0.31 x 0.50	SIL15E-05W3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
NEW	15A	10 to 14VDC	0.8 to 3.63V <sup>(3)</sup>	92%	2.00 x 0.34 x 0.50	SIL15E-12M001	-R
	15A	10 to 14VDC	0.8 to 3.63V <sup>(3)</sup>	94%	2.00 x 0.31 x 0.50	SIL15E-12W3V3-V <sup>(1)</sup>	R, -H <sup>(2)</sup>
	15A	3.0 to 5.5VDC	2.5V	93.5%	1.30 x 0.53 x 0.32	SMT15E-05S2V5	-R, -T
	15A	4.5 to 5.5VDC	3.3V	95%	1.30 x 0.53 x 0.32	SMT15E-05S3V3	-R, -T
	15A	3.0 to 5.5VDC	0.8 to 3.63V <sup>(3)</sup>	95% <sup>(5)</sup>	1.30 x 0.53 x 0.32	SMT15E-05W3V3	-R, -T
	15A	10 to 14VDC	0.8 to 3.63V <sup>(3)</sup>	94%	1.30 x 0.53 x 0.32	SMT15E-12W3V3	-R, -T

Part number explanation: SMT = surface-mount technology  
SIL = single in-line, through-hole mounting

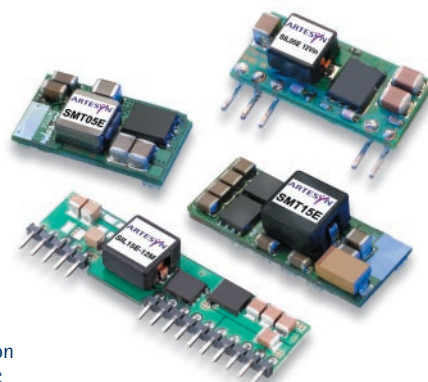
[http://www.artesyn.com/powergroup/pol\\_general.htm#eclass](http://www.artesyn.com/powergroup/pol_general.htm#eclass)

### Notes:

- (1) The standard unit with the suffix '-V' is for vertical mounting.
- (2) Please consult the short form data sheets for the dimensions of the horizontal mounted versions.
- (3) These models have a wide trim output. Please consult the short form data sheets for the output voltage trim range and the default factory setting.
- (4) When the voltage is trimmed down to 0.8V the efficiency is 82%.
- (5) When the voltage is trimmed down to 0.8V the efficiency is 82.5%.

### Options:

- 02 For certain applications that use low ESR capacitors on the output of the converter to ensure maximum converter stability, please add the suffix '02' to the part number, e.g. SIL10E-05S2V5-V02.
- H The standard unit with the suffix '-V' is for vertical mounting. To order a unit with horizontal mounting, add the suffix '-H' to the part number, e.g. SIL06C-05SADJ-H.
- R, -R 5Vin models feature 'Negative Logic' Remote ON/OFF operation as standard. A 'Positive Logic' Remote ON/OFF version is also possible, add the suffix 'R' or '-R' to the part number, e.g. SIL15E-05S2V5-VR, SIL15E-05S2V5-HR, SMT05E-05S1V5-R. 12Vin models feature 'Positive Logic' Remote ON/OFF operation as standard. A 'Negative Logic' Remote ON/OFF version is also possible, add the suffix 'R' of '-R' to the part number, e.g. SIL10E-12S1V2-VR, SIL10E-12S1V2-HR, SMT05E-12W3V3-R.
- T Tape and reel packaging.



# Non-isolated Point of Load DC/DC Converters

## Choose C class for economy

Careful design provides good efficiency, combined with industry-leading value – plus an extremely wide choice of current ratings up to 40A.

### General-Purpose C Class Point of Load DC/DC Converters

Output Current	Input Voltage	Output Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options
6A	4.5 to 5.5VDC	0.9 to 3.3V <sup>(3)</sup>	89%	1.20 x 0.45 x 0.61	SIL06C-05SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4
6A	10.2 to 13.8VDC	0.9 to 5.0V <sup>(3)</sup>	91%	1.20 x 0.45 x 0.61	SIL06C-12SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4
6A	4.5 to 5.5VDC	1.5V	75%	2.50 x 0.23 x 0.55	SIP20C-05S1V5	R
6A	4.5 to 5.5VDC	2.5V	82%	2.50 x 0.23 x 0.55	SIP20C-05S2V5	R
6A	4.5 to 5.5VDC	3.3V	90%	2.50 x 0.23 x 0.55	SIP20C-05S3V3	R
15A	4.5 to 5.5VDC	0.9 to 3.3V <sup>(3)</sup>	89%	1.20 x 0.40 x 1.10	SIL15C-05SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4
15A	10.2 to 13.8VDC	0.9 to 5.0V <sup>(3)</sup>	91%	1.20 x 0.40 x 1.10	SIL15C-12SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4
20A	4.5 to 5.5VDC	0.9 to 3.3V <sup>(3)</sup>	87%	1.20 x 0.45 x 1.10	SIL20C-05SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4
20A	10.2 to 13.8VDC	0.9 to 5.0V <sup>(3)</sup>	91%	1.20 x 0.45 x 1.10	SIL20C-12SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4
25A	10.2 to 13.8VDC	-5.05V	90%	2.40 x 0.52 x 1.25	SIL25C-12SNEG-V	
30A	10.2 to 13.8VDC	0.9 to 5.0V <sup>(3)</sup>	91%	2.40 x 0.50 x 1.25	SIL30C-12SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4
40A	10.2 to 13.8VDC	0.9 to 5.0V <sup>(3)</sup>	92%	2.40 x 0.50 x 1.25	SIL40C-12SADJ-V <sup>(1)</sup>	-H <sup>(2)</sup> , P4

NEW

Part number explanation:

SIL = single-in-line, through-hole mounting

SIP = single-in-line packaging, through-hole mounting

#### Notes:

- (1) The standard unit with the suffix '-V' is for vertical mounting.
- (2) Please consult the short form data sheets for the dimensions of the horizontal mounted versions.
- (3) These models have a wide trim output. Please consult the short form data sheets for the output voltage trim range and the default factory setting.

#### Options:

- H The standard unit with the suffix '-V' is for vertical mounting. To order a unit with horizontal mounting, add the suffix '-H' to the part number, e.g. SIL06C-05SADJ-H.
- P4 To order a unit with a pin length of 0.150", add the suffix 'P4' to the part number, e.g. SIL20C-05SADJ-HP4.
- R These products are optionally available with a single line remote sense capability, which can be specified by adding the suffix 'R' to the part number, e.g. SIP20C-05S3V3R.

[http://www.artesyn.com/powergroup/pol\\_general.htm#cclass](http://www.artesyn.com/powergroup/pol_general.htm#cclass)



## Choose F Class for fast transient response and current density

These highly integrated modules feature unprecedented transient response capabilities and current densities. The new Typhoon™ SMT12F, for example, handles step changes in load current at rates up to 300A/μs and the total board space required for the module and capacitors is a mere 0.46in<sup>2</sup> (300mm<sup>2</sup>). This yields a current density of more than 26A/in<sup>2</sup>.

### General-Purpose F Class Point of Load DC/DC Converters

Output Current	Input Voltage	Output Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options
NEW 12A	3.0 to 5.5VDC	0.9 to 3.3V <sup>(1)</sup>	95%	0.63 x 0.52 x 0.31	SMT12F-05W3V3	-R
NEW 15A	10.8 to 13.2VDC	1.0V	85%	1.30 x 0.53 x 0.30	SMT15F-12S1V0	-R
NEW 15A	10.8 to 13.2VDC	1.2V	86%	1.30 x 0.53 x 0.30	SMT15F-12S1V2	-R
NEW 15A	10.8 to 13.2VDC	1.5V	87%	1.30 x 0.53 x 0.30	SMT15F-12S1V5	-R
NEW 15A	10.8 to 13.2VDC	1.8V	88%	1.30 x 0.53 x 0.30	SMT15F-12S1V8	-R

NEW

NEW

NEW

NEW

NEW

Typhoon

Typhoon

Typhoon

Typhoon

Typhoon

#### Notes:

- (1) This model has a wide trim output. Please consult the short form data sheet for the output voltage trim range and the default factory setting.

#### Options:

- R 5Vin models feature 'Negative Logic' Remote ON/OFF operation as standard. A 'Positive Logic' Remote ON/OFF version is also possible, add the suffix '-R' to the part number, e.g. SMT12F-05W3V3-R. 12Vin models feature 'Positive Logic' Remote ON/OFF operation as standard. A 'Negative Logic' Remote ON/OFF version is also possible, add the suffix '-R' to the part number, e.g. SMT15F-12S1V5-R.

[http://www.artesyn.com/powergroup/pol\\_general.htm#fclass](http://www.artesyn.com/powergroup/pol_general.htm#fclass)




















# Non-isolated Point of Load DC/DC Converters

## Choose POLA for multi-sourcing flexibility

Artesyn's POLA converters are pin-for-pin compatible with those produced by Texas Instruments, Astec Power and Ericsson Power Modules under the Point-of-Load Alliance. They all have built-in power sequencing capabilities, and many offer advanced features such as voltage margining and pre-bias start-up to further simplify design-in, production test and use.

### General-Purpose POLA Point of Load DC/DC Converters

Output Current	Input Voltage	Output Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options	
 15A	2.95 to 3.65VDC	0.8 to 2.5V <sup>(1)</sup>	93%	1.370 x 0.620 x 0.354	PTH03010WAH	S, T	NEW
 22A	2.95 to 3.65VDC	0.8 to 2.5V <sup>(1)</sup>	95%	1.495 x 0.870 x 0.354	PTH03020WAH	S	NEW
 30A	2.95 to 3.65VDC	0.8 to 2.5V <sup>(1)</sup>	93%	1.370 x 1.120 x 0.354	PTH03030WAH	S	NEW
 6A	2.95 to 3.65VDC	0.8 to 2.5V <sup>(1)</sup>	94%	0.870 x 0.495 x 0.335	PTH03050WAH	S, T	NEW
 10A	2.95 to 3.65VDC	0.8 to 2.5V <sup>(1)</sup>	93%	0.995 x 0.620 x 0.354	PTH03060WAH	S, T	NEW
 15A	4.5 to 5.5VDC	0.8 to 3.6V <sup>(1)</sup>	95%	1.370 x 0.620 x 0.354	PTH05010WAH	S, T	NEW
 22A	4.5 to 5.5VDC	0.8 to 3.6V <sup>(1)</sup>	96%	1.495 x 0.870 x 0.354	PTH05020WAH	S	NEW
 30A	4.5 to 5.5VDC	0.8 to 3.6V <sup>(1)</sup>	94%	1.370 x 1.120 x 0.354	PTH05030WAH	S	NEW
 6A	4.5 to 5.5VDC	0.8 to 3.6V <sup>(1)</sup>	95%	0.870 x 0.495 x 0.335	PTH05050WAH	S, T	NEW
 10A	4.5 to 5.5VDC	0.8 to 3.6V <sup>(1)</sup>	94%	0.995 x 0.620 x 0.354	PTH05060WAH	S, T	NEW
 12A	10.8 to 13.2VDC	1.2 to 5.5V <sup>(1)</sup>	94%	1.370 x 0.620 x 0.354	PTH12010WAH	S, T	NEW
 18A	10.8 to 13.2VDC	1.2 to 5.5V <sup>(1)</sup>	95%	1.495 x 0.870 x 0.354	PTH12020WAH	S	NEW
 26A	10.2 to 13.8VDC	1.2 to 5.5V <sup>(1)</sup>	94.5%	1.370 x 1.120 x 0.354	PTH12030WAH	S	NEW
 6A	10.8 to 13.2VDC	1.2 to 5.5V <sup>(1)</sup>	93%	0.870 x 0.495 x 0.335	PTH12050WAH	S, T	NEW
 10A	10.8 to 13.2VDC	1.2 to 5.5V <sup>(1)</sup>	94%	0.995 x 0.620 x 0.354	PTH12060WAH	S, T	NEW

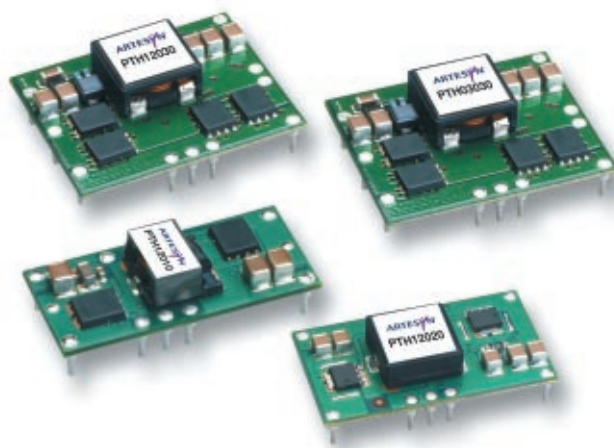
#### Notes:

- (1) These models have a wide trim output. Please consult the short form data sheets for the output voltage trim range and the default factory setting.

#### Options:

- S The standard unit with 'H' at the end of the part number is for horizontal through-hole mounting. To order a surface-mount unit, substitute 'S' for 'H' in the part number, e.g. PTH05050WAS.
- T Tape and reel packaging (only available on the surface-mount versions of the POLA range), e.g. PTH05050WAST.

[http://www.artesyn.com/powergroup/pol\\_general.htm#pola](http://www.artesyn.com/powergroup/pol_general.htm#pola)



## Special-Purpose, Point of Load DC/DC Converters

Artesyn offers a growing range of POL converters that meet the special requirements of loads such as memory and microprocessors.

### Memory Power, Point of Load DC/DC Converters

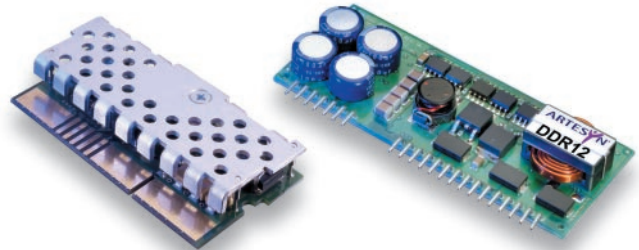
These converters are dedicated to meeting the specific needs of today's memory modules – including SRAM, DRAM and DDR-SDRAM – and provide a very low-overhead design solution. The DDR12 module provides a complete solution for DDR memory, generating both main and termination voltage outputs.

Memory Power Point of Load DC/DC Converters					
Output Current	Input Voltage	Output Voltage	Efficiency	Size (LxWxH in inches)	Part Number
20A	10.8 to 13.2VDC	3.3/2.5V <sup>(1)</sup>	86/82% <sup>(1)</sup>	2.75 x 0.59 x 1.38	NXA66-12P3V3C
25A & 8A <sup>(2)</sup>	10.8 to 13.2VDC	2.5V & 1.25V <sup>(2)</sup>	84%	3.00 x 0.50 x 1.20	DDR12-25D08-A

[http://www.artesyn.com/powergroup/pol\\_special\\_memory.htm](http://www.artesyn.com/powergroup/pol_special_memory.htm)

**Notes:**

- (1) The NXA66 can be programmed to provide 3.3V or 2.5V. Typical efficiency values are provided for each programmed operating condition.
- (2) This dual output converter can provide up to 25A on the 2.5V channel and 8A on the 1.25V channel.



### VRM Processor Power, Point of Load DC/DC Converters

Today's processor technologies are among the most demanding loads in terms of current levels and transient performance. Artesyn closely tracks Intel's VRM roadmap and offers converters designed specifically to match demands, including transient response capabilities in excess of 900A/μs. These special-purpose POL converters also offer a host of designer-friendly features, such as pluggable form factors and very low profiles.

VRM Processor Power Point of Load DC/DC Converters						
Output Current	Input Voltage	Output Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Specification
60A	11 to 13.2VDC	1.1 to 1.85V	84%	3.80 x 0.57 x 2.30	NXI110-12P1V8C	VRM9.0
81A	11 to 12.6VDC	1.1 to 1.85V	87%	3.80 x 0.82 x 0.83	NXI100-12P1V8C	VRM9.0, VRM9.1
81A	11 to 12.6VDC	1.1 to 1.85V	85%	3.80 x 0.57 x 2.30	NXI150-12P1V8C	VRM9.1
80A	11 to 12.6VDC	0.8375 to 1.6000V	85%	3.19 x 0.77 x 1.24 <sup>(1)</sup>	VRM10-80-12-P	VRM10.0, VRM10.1
85A	11 to 12.6VDC	0.8375 to 1.6000V	85%	3.19 x 0.77 x 1.24 <sup>(1)</sup>	VRM10-85-12-U	VRM10.0, VRM10.1
105A	11 to 12.6VDC	0.8375 to 1.6000V	84%	3.68 x 1.00 x 1.25 <sup>(1)</sup>	VRM10-105-12-E	VRM10.1, VRM10.2

NEW  
NEW  
Q4 04

[http://www.artesyn.com/powergroup/pol\\_special\\_vrm.htm](http://www.artesyn.com/powergroup/pol_special_vrm.htm)

**Notes:**

- (1) Height when seated in specified connector.







# Isolated DC/DC Converters

## Quarter-Brick Isolated DC/DC Converters (36 to 200W)

Our quarter-brick range offers 29 different models, spanning output voltages from 1.2 to 12VDC – including dual-output versions – and with output power densities as high as 200W/in<sup>3</sup>. The range includes conduction-cooled base-plate versions for conventional clamshell mounting, as well as 20 high performance Typhoon™ open-frame modules – 16 of them new this year – which all operate without heatsinks.

Quarter-Brick Isolated DC/DC Converters (36 to 200W)										
	Output Voltage		Output Current		Output Power	Input Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options
	1	2	1	2						
	1.8V		12A	16A	40W	33 to 75VDC	90.5%	2.30 x 1.50 x 0.50	EXQ60-48D3V3-2V5	-R
	5V	3.3V	12A	15A	60W	33 to 75VDC	91.5%	2.30 x 1.50 x 0.50	EXQ60-48D05-3V3	-R
	1.2V		30A		36W	33 to 75VDC	85%	2.30 x 1.45 x 0.50	EXQ125-48S1V2	-R
	1.5V		30A		45W	33 to 75VDC	86.5%	2.30 x 1.45 x 0.50	EXQ125-48S1V5	-R
	1.8V		30A		54W	33 to 75VDC	87.5%	2.30 x 1.45 x 0.50	EXQ125-48S1V8	-R
	2.5V		30A		75W	33 to 75VDC	89.5%	2.30 x 1.45 x 0.50	EXQ125-48S2V5	-R
	3.3V		25A		82.5W	33 to 75VDC	91%	2.30 x 1.45 x 0.50	EXQ125-48S3V3	-R
	5V		20A		100W	33 to 75VDC	92%	2.30 x 1.45 x 0.50	EXQ125-48S05	-R
	12V		8.3A		100W	33 to 75VDC	92.5%	2.30 x 1.45 x 0.50	EXQ125-48S12	-R
NEW	3.3V	5.0V	15A	10A	99.5W	36 to 75VDC	91%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD25A48-5V0-3V3 <sup>(1)</sup>	A, RA, E, RE
NEW	1.2V	3.3V	15A	15A	67.5W	36 to 75VDC	90%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD30A48-3V3-1V2 <sup>(1)</sup>	A, RA, E, RE
NEW	1.5V	3.3V	15A	15A	72W	36 to 75VDC	90.5%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD30A48-3V3-1V5 <sup>(1)</sup>	A, RA, E, RE
NEW	1.8V	3.3V	15A	15A	76.5W	36 to 75VDC	90.5%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD30A48-3V3-1V8 <sup>(1)</sup>	A, RA, E, RE
NEW	2.5V	3.3V	15A	15A	87W	36 to 75VDC	91%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD30A48-3V3-2V5 <sup>(1)</sup>	A, RA, E, RE
	1.2V	3.3V	20A	20A	90W	36 to 75VDC	90%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD40A48-3V3-1V2 <sup>(1)</sup>	A, RA, E, RE
	1.5V	3.3V	20A	20A	96W	36 to 75VDC	90.5%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD40A48-3V3-1V5 <sup>(1)</sup>	A, RA, E, RE
	1.8V	3.3V	20A	20A	102W	36 to 75VDC	90.5%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD40A48-3V3-1V8 <sup>(1)</sup>	A, RA, E, RE
	2.5V	3.3V	20A	20A	116W	36 to 75VDC	90.5%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQD40A48-3V3-2V5 <sup>(1)</sup>	A, RA, E, RE
Q3 04	5.0V		40A		200W	36 to 75VDC	92%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS40A48-5V0 <sup>(1)</sup>	A, RA, E, RE
NEW	1.2V		50A		60W	36 to 75VDC	88.5%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS50A48-1V2 <sup>(1)</sup>	A, RA, E, RE
NEW	1.5V		50A		75W	36 to 75VDC	89.5%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS50A48-1V5 <sup>(1)</sup>	A, RA, E, RE
NEW	1.8V		50A		90W	36 to 75VDC	90.4%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS50A48-1V8 <sup>(1)</sup>	A, RA, E, RE
NEW	2.5V		50A		125W	36 to 75VDC	90%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS50A48-2V5	A, RA, E, RE
NEW	3.3V		50A		165W	36 to 75VDC	91%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS50A48-3V3	A, RA, E, RE
Q3 04	3.3V		60A		198W	36 to 75VDC	91%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS60A48-3V3 <sup>(1)</sup>	A, RA, E, RE
NEW	1.5V		80A		120W	36 to 75VDC	88.8%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS80A48-1V5 <sup>(1)</sup>	A, RA, E, RE
NEW	1.8V		80A		144W	36 to 75VDC	90%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS80A48-1V8 <sup>(1)</sup>	A, RA, E, RE
Q3 04	2.5V		80A		200W	36 to 75VDC	91%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS80A48-2V5 <sup>(1)</sup>	A, RA, E, RE
NEW	1.2V		100A		120W	36 to 75VDC	86%	2.30 x 1.45 x 0.30 <sup>(2)</sup>	LQS100A48-1V2 <sup>(1)</sup>	A, RA, E, RE

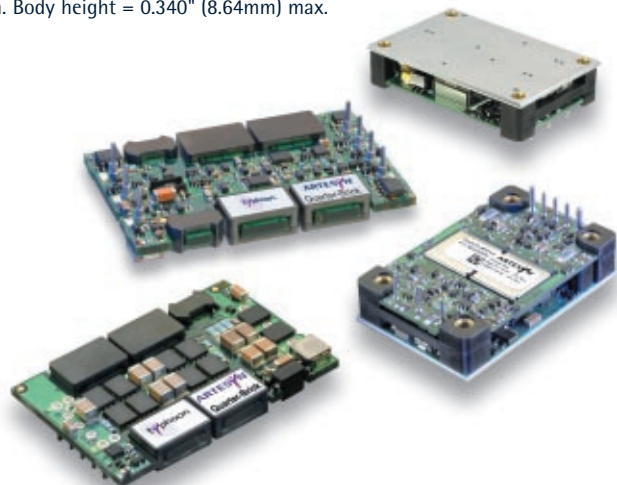
### Notes:

- (1) The options refer to body height, package type and pin length.
- (2) Size option A: 2.30 x 1.45 x 0.30, stand-off height = 0.030" ±0.01" (0.76mm). Body height = 0.300" (7.62mm) max.  
Size option E: 2.30 x 1.45 x 0.34, stand-off height = 0.065" (1.65mm) min. Body height = 0.340" (8.64mm) max.

### Options:

- A Body height = 0.300" (7.62mm). Package type = through hole. Pin length = 0.188" (4.78mm). Remote on/off (positive).
- E Body height = 0.340" (8.64mm). Package type = through hole. Pin length = 0.188" (4.78mm). Remote on/off (positive).
- RA Body height = 0.300" (7.62mm). Package type = through hole. Pin length = 0.188" (4.78mm). Remote on/off (negative).
- RE Body height = 0.340" (8.64mm). Package type = through hole. Pin length = 0.188" (4.78mm). Remote on/off (negative).
- R The standard product features active-high remote on/off. Active-low logic can optionally be specified, by adding the suffix '-R' to the part number, e.g. EXQ125-48S12-R.

[http://www.artesyn.com/powergroup/quarter\\_brick.htm](http://www.artesyn.com/powergroup/quarter_brick.htm)



# Isolated DC/DC Converters

## Half-Brick Isolated DC/DC Converters (16 to 165W)

Artesyn's comprehensive half-brick range provides complete choice: eight output voltages from 1.2 to 15VDC – including dual-voltage versions – in variants for either 24 or 48V inputs. Converters with part codes starting with E (such as the EXB30-48S2V0) are designed to offer higher performance and efficiency. All converters are through-hole mount.

Half-Brick Isolated DC/DC Converters (16 to 165W)									
Output Voltage		Output Current		Output Power	Input Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options
1	2	1	2						
3.3V		10A		33W	18 to 36VDC	76%	2.40 x 2.28 x 0.50	BXB50-24S3V3FLT	FHT
12V		4.16A		50W	18 to 36VDC	83%	2.40 x 2.28 x 0.50	BXB50-24S12FLT	FHT
15V		3.33A		50W	18 to 36VDC	83%	2.40 x 2.28 x 0.50	BXB50-24S15FLT	FHT
3.3V		10A		33W	36 to 75VDC	77%	2.40 x 2.28 x 0.50	BXB50-48S3V3FLT	FHT
5V		10A		50W	36 to 75VDC	82%	2.40 x 2.28 x 0.50	BXB50-48S05FLT	FHT
12V		4.16A		50W	36 to 75VDC	84%	2.40 x 2.28 x 0.50	BXB50-48S12FLT	FHT
3.3V		15A		50W	36 to 75VDC	79%	2.40 x 2.28 x 0.50	BXB75-48S3V3FLT	FHT
5V		15A		75W	36 to 75VDC	83%	2.40 x 2.28 x 0.50	BXB75-48S05FLT	FHT
12V		6.25A		75W	36 to 75VDC	84%	2.40 x 2.28 x 0.50	BXB75-48S12FLT	FHT
3.3V	2.5V	15A	15A	60W	36 to 75VDC	74%	2.40 x 2.28 x 0.50	BXB75-48D3V3-2V5FL	FH
5V	3.3V	15A	15A	75W	36 to 75VDC	82%	2.40 x 2.28 x 0.50	BXB75-48D05-3V3FL	FH
12V		8.33A		100W	18 to 36VDC	85%	2.40 x 2.28 x 0.50	BXB100-24S12FLT	FHT
3.3V		20A		66W	36 to 75VDC	78%	2.40 x 2.28 x 0.50	BXB100-48S3V3FLT	FHT
5V		20A		100W	36 to 75VDC	83%	2.40 x 2.28 x 0.50	BXB100-48S05FLT	FHT
12V		8.33A		100W	36 to 75VDC	86%	2.40 x 2.28 x 0.50	BXB100-48S12FLT	FHT
15V		6.67A		100W	36 to 75VDC	86%	2.40 x 2.28 x 0.50	BXB100-48S15FLT	FHT
3.3V		30A		100W	18 to 36VDC	77%	2.40 x 2.28 x 0.50	BXB150-24S3V3FLT	FHT
3.3V		30A		100W	36 to 75VDC	79%	2.40 x 2.28 x 0.50	BXB150-48S3V3FLT	FHT
5V		30A		150W	36 to 75VDC	84%	2.40 x 2.28 x 0.50	BXB150-48S05FLT	FHT
12V		12.5A		150W	36 to 75VDC	84%	2.40 x 2.28 x 0.50	BXB150-48S12FLT	FHT
15V		10A		150W	36 to 75VDC	88%	2.40 x 2.28 x 0.50	BXB150-48S15FLT	FHT
2V		8A		16W	36 to 75VDC	86%	2.40 x 2.28 x 0.43	EXB30-48S2V0	
2.5V		8A		20W	36 to 75VDC	87%	2.40 x 2.28 x 0.43	EXB30-48S2V5	
3.3V		8A		26.4W	36 to 75VDC	90%	2.40 x 2.28 x 0.43	EXB30-48S3V3	
5V		6A		30W	36 to 75VDC	92%	2.40 x 2.28 x 0.43	EXB30-48S05	
12V		2.5A		30W	36 to 75VDC	90%	2.40 x 2.28 x 0.43	EXB30-48S12	
5V	3.3V	6A	6A	30W	18 to 36VDC	87%	2.40 x 2.28 x 0.50	EXB30-24D05-3V3 <sup>(2)</sup>	
3.3V	2.5V	6A	6A	30W	18 to 36VDC	85%	2.40 x 2.28 x 0.50	EXB30-24D3V3-2V5 <sup>(2)</sup>	
5V	3.3V	6A	6A	30W	36 to 75VDC	88%	2.40 x 2.28 x 0.50	EXB30-48D05-3V3 <sup>(2)</sup>	
3.3V	2.5V	6A	6A	30W	36 to 75VDC	85%	2.40 x 2.28 x 0.50	EXB30-48D3V3-2V5 <sup>(2)</sup>	
1.8V		10A		18W	36 to 75VDC	85.7%	2.40 x 2.28 x 0.43	EXB50-48S1V8	-R
2V		10A		20W	18 to 36VDC	86.5%	2.40 x 2.28 x 0.43	EXB50-24S2V0	-R
2V		10A		20W	36 to 75VDC	87.5%	2.40 x 2.28 x 0.43	EXB50-48S2V0	-R
2.5V		10A		25W	36 to 75VDC	87.5%	2.40 x 2.28 x 0.43	EXB50-48S2V5	-R
3.3V		10A		33W	18 to 36VDC	89%	2.40 x 2.28 x 0.43	EXB50-24S3V3	-R
3.3V		10A		33W	36 to 75VDC	90%	2.40 x 2.28 x 0.43	EXB50-48S3V3	-R
5V		10A		50W	18 to 36VDC	90%	2.40 x 2.28 x 0.43	EXB50-24S05	-R
5V		10A		50W	36 to 75VDC	91%	2.40 x 2.28 x 0.43	EXB50-48S05	-R
12V		4.2A		50W	36 to 75VDC	90%	2.40 x 2.28 x 0.43	EXB50-48S12	-R
3.3V	1.8V	8.5A	8.5A	50W	36 to 75VDC	86.4%	2.40 x 2.28 x 0.39	EXB50-48D3V3-1V8 <sup>(1)</sup>	-R
5V	3.3V	7.5A	7.5A	50W	36 to 75VDC	89%	2.40 x 2.28 x 0.39	EXB50-48D05-3V3 <sup>(1)</sup>	-R
1.8V		30A		54W	36 to 75VDC	87.5%	2.40 x 2.28 x 0.39	EXB100-48S1V8	-R
3.3V		30A		100W	36 to 75VDC	90.5%	2.40 x 2.28 x 0.39	EXB100-48S3V3	-R
5V		20A		100W	36 to 75VDC	91.5%	2.40 x 2.28 x 0.39	EXB100-48S05	-R
1.2V		60A		72W	33 to 75VDC	85%	2.40 x 2.28 x 0.50	EXB250-48S1V2	-R
1.5V		60A		90W	33 to 75VDC	85.5%	2.40 x 2.28 x 0.50	EXB250-48S1V5	-R
1.8V		60A		108W	33 to 75VDC	87%	2.40 x 2.28 x 0.50	EXB250-48S1V8	-R
2.5V		60A		150W	33 to 75VDC	88%	2.40 x 2.28 x 0.50	EXB250-48S2V5	-R
3.3V		50A		165W	33 to 75VDC	90%	2.40 x 2.28 x 0.50	EXB250-48S3V3	-R
5V		33A		165W	33 to 75VDC	91.5%	2.40 x 2.28 x 0.50	EXB250-48S05	-R
12V		13.75A		165W	33 to 75VDC	92%	2.40 x 2.28 x 0.50	EXB250-48S12	-R

### Notes:

- Ultra wide trim range: EXB50-48D3V3-1V8 each output can be trimmed from 3.6V to 0.8V. EXB50-48D05-3V3 each output can be trimmed from 5.25V to 1.5V.  $I_{o1} + I_{o2} = 10A$  under natural convection. With some forced air cooling and/or derating,  $I_{o1} + I_{o2} = 15A$ .
- Maximum output current is 6A. 100% load flexibility with output voltage tracking.

### Options:

- [http://www.artesyn.com/powergroup/half\\_brick.htm](http://www.artesyn.com/powergroup/half_brick.htm)
- FH** The standard product features active-low remote on/off, as signified by the 'FL' at the end of the part number. Active-high logic can optionally be specified, by substituting 'FH' for 'FL' in the part number, e.g. BXB75-48D3V3-2V5FH.
  - FHT** The standard product features active-low remote on/off, as signified by the 'FLT' at the end of the part number. Active-high logic can optionally be specified, by substituting 'FHT' for 'FLT' in the part number, e.g. BXB100-48S3V3FHT.
  - R** Remote on/off (active-low). By adding the '-R' suffix to the part number, you indicate that you require this option.

## Half-Brick Isolated DC/DC Converters for RF applications (308 to 350W)

We produce a growing range of high power half-bricks intended primarily for RF applications, such as base station power amplifiers. Offering industry-leading efficiencies and power densities as high as 160W/in<sup>3</sup>, these converters deliver full output power across a wide temperature range of -40 to +100°C, without de-rating. The 12V output version of the RFB350 is ideal for systems employing intermediate bus architectures.

Half-Brick Isolated DC/DC Converters (308 to 350W)								
Output Voltage 1	Output Current 1	Output Power	Input Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Option	
16.8 to 29.4V	11A	308W	18 to 36VDC	90%	2.4 x 2.28 x 0.50	RFB300-24S28-5	-R, -4 <sup>(1)</sup> , -T	Q3 04
16.8 to 29.4V	11A	308W	36 to 75VDC	91%	2.4 x 2.28 x 0.50	RFB300-48S28-5	-R, -4 <sup>(1)</sup> , -T	Q3 04
16.8 to 29.4V	12.5A	350W	36 to 75VDC	91%	2.4 x 2.28 x 0.50	RFB350-48S28-5	-R, -4 <sup>(1)</sup> , -T	Q3 04
7.2 to 12.6V	29.2A	350W	36 to 75VDC	88%	2.4 x 2.28 x 0.50	RFB350-48S12-5	-R, -T	Q3 04

[http://www.artesyn.com/powergroup/half\\_brick.htm](http://www.artesyn.com/powergroup/half_brick.htm)

### Notes:

- (1) Offered with standard body height = 0.50".  
Contact a local sales representative for availability of '-4' option.

### Options:

- 4 Body height = 0.40" (10.16mm).
- 5 Body height = 0.50" (12.70mm).
- R The standard product features active-high remote on/off. Active-low logic can optionally be specified, by adding the suffix '-R' to the part number, e.g. RFB350-48S12-R5.
- T The standard product features standard clearance inserts. Threaded inserts can optionally be specified, by adding the suffix 'T' to the part number, e.g. RFB350-48S28-R5T.



## Full-Brick Isolated DC/DC Converters for RF applications (500 to 700W)

We now offer five industry-standard full-bricks for use with base station power amplifiers and similar RF applications. These very high efficiency converters offer power densities up to 158W/in<sup>3</sup>, and are rated for full power operation across a wide -40 to +100°C temperature range. They all feature a low height option and wide output voltage adjustability to simplify design-in, and the 500W and 600W models offer a choice of input voltage ranges.

Full-Brick Isolated DC/DC Converters (500 to 700W)								
Output Voltage 1	Output Current 1	Output Power	Input Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Option	
16.8 to 29.4V	17.9A	500W	18 to 36VDC	90%	4.6 x 2.4 x 0.50	RFF500-24S28-5	-4 <sup>(1)</sup> , -T	Q4 04
16.8 to 29.4V	17.9A	500W	36 to 75VDC	91%	4.6 x 2.4 x 0.50	RFF500-48S28-5	-4 <sup>(1)</sup> , -T	Q4 04
16.8 to 29.4V	21.4A	600W	18 to 36VDC	90%	4.6 x 2.4 x 0.50	RFF600-24S28-5	-4 <sup>(1)</sup> , -T	Q4 04
16.8 to 29.4V	21.4A	600W	36 to 75VDC	91%	4.6 x 2.4 x 0.50	RFF600-48S28-5	-4 <sup>(1)</sup> , -T	Q4 04
16.8 to 29.4V	25A	700W	36 to 75VDC	91%	4.6 x 2.4 x 0.50	RFF700-48S28-5	-4 <sup>(1)</sup> , -T	Q4 04

[http://www.artesyn.com/powergroup/full\\_brick.htm](http://www.artesyn.com/powergroup/full_brick.htm)

### Notes:

- (1) Offered with standard body height = 0.50".  
Contact a local sales representative for availability of '-4' option.

### Options:

- 4 Body height = 0.40" (10.16mm).
- 5 Body height = 0.50" (12.70mm).
- T The standard product features standard clearance inserts. Threaded inserts can optionally be specified, by adding the suffix 'T' to the part number, e.g. RFF600-48S28-5T.





# Isolated DC/DC Converters

## General Isolated DC/DC Converters (2 to 40W)

This extensive range of general-purpose, horizontal-mounting converters provides solutions for virtually all common needs. Choose from 12V industrial or 24/48V telecom inputs, 1.8 to 15VDC output voltages, single-, dual- or triple-outputs, and negative rail options. Various form factors – including the industry-standard 2 x 1 inches – are available, most with standard pin-outs.

Part codes starting with B (e.g. BXA3-12S3V3) are enclosed, through-hole mount

Part codes starting with C or E are open-frame/through-hole; choose C for economy, E for higher performance/efficiency

Part codes starting with S are open-frame/surface-mount – designed for automated assembly

General Isolated DC/DC Converters (2 to 40W)												
Output Voltage			Output Current			Output Power	Input Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options	
1	2	3	1	2	3							
3.3V			600mA			2W	9 to 18VDC	68%	1.25 x 0.80 x 0.50	BXA3-12S3V3	-F	
15V			200mA			3W	9 to 18VDC	75%	1.25 x 0.80 x 0.50	BXA3-12S15	-F	
3.3V			600mA			2W	18 to 36VDC	68%	1.25 x 0.80 x 0.50	BXA3-24S3V3	-F	
5V			500mA			3W	18 to 36VDC	76%	1.25 x 0.80 x 0.50	BXA3-24S05	-F	
+5V	-5V		+250mA	-250mA		3W	18 to 36VDC	76%	1.25 x 0.80 x 0.50	BXA3-24D05	-F	
3.3V			600mA			2W	36 to 75VDC	68%	1.25 x 0.80 x 0.50	BXA3-48S3V3	-F	
5V			500mA			3W	36 to 75VDC	76%	1.25 x 0.80 x 0.50	BXA3-48S05	-F	
12V			250mA			3W	36 to 75VDC	76%	1.25 x 0.80 x 0.50	BXA3-48S12	-F	
15V			200mA			3W	36 to 75VDC	76%	1.25 x 0.80 x 0.50	BXA3-48S15	-F	
5V			2A			10W	9 to 18VDC	81%	2.00 x 1.00 x 0.40	BXA10-12S05 <sup>(1)</sup>	-S	
15V			0.67A			10W	9 to 18VDC	85%	2.00 x 1.00 x 0.40	BXA10-12S15 <sup>(1)</sup>	-S	
+5V	-5V		+1A	-1A		10W	9 to 18VDC	81%	2.00 x 1.00 x 0.40	BXA10-12D05 <sup>(1)</sup>	-S	
5V			2A			10W	18 to 75VDC	82%	2.00 x 1.00 x 0.40	BXA10-48S05 <sup>(1)</sup>	-S	
+5V	-5V		+1A	-1A		10W	18 to 75VDC	82%	2.00 x 1.00 x 0.40	BXA10-48D05 <sup>(1)</sup>	-S	
+12V	-12V		+0.416A	-0.416A		10W	18 to 75VDC	84%	2.00 x 1.00 x 0.40	BXA10-48D12 <sup>(1)</sup>	-S	
+15V	-15V		+0.333A	-0.333A		10W	18 to 75VDC	84%	2.00 x 1.00 x 0.40	BXA10-48D15 <sup>(1)</sup>	-S	
3.3V			2.4A			7.9W	18 to 75VDC	78%	2.00 x 1.00 x 0.39	CXA10-48S3V3	-S	
5V			2A			10W	18 to 75VDC	81%	2.00 x 1.00 x 0.39	CXA10-48S05	-S	
12V			0.83A			10W	18 to 75VDC	83%	2.00 x 1.00 x 0.39	CXA10-48S12	-S	
+5V	-5V		1A	1A		10W	18 to 75VDC	81%	2.00 x 1.00 x 0.39	CXA10-48D05	-S	
+12V	-12V		0.41A	0.41A		10W	18 to 75VDC	83%	2.00 x 1.00 x 0.39	CXA10-48D12	-S	
+15V	-15V		0.33A	0.33A		10W	18 to 75VDC	81%	2.00 x 1.00 x 0.39	CXA10-48D15	-S	
3.3V			6A			20W	18 to 75VDC	80%	2.00 x 1.60 x 0.41	CXA20-48S3V3		
5V			4A			20W	18 to 75VDC	83%	2.00 x 1.60 x 0.41	CXA20-48S05		
12V			1.66A			20W	18 to 75VDC	83%	2.00 x 1.60 x 0.41	CXA20-48S12		
+5V	-5V		2A	2A		20W	18 to 75VDC	84%	2.00 x 1.60 x 0.41	CXA20-48D05		
+12V	-12V		0.83A	0.83A		20W	18 to 75VDC	84%	2.00 x 1.60 x 0.41	CXA20-48D12		
1.8V			6A			10.8W	33 to 75VDC	83%	2.00 x 1.00 x 0.35	CXE15-48S1V8	-R, -S, -T, -RT, -ST	
2.5V			6A			15W	33 to 75VDC	85%	2.00 x 1.00 x 0.35	CXE15-48S2V5	-R, -S, -T, -RT, -ST	
3.3V			4.5A			15W	33 to 75VDC	86%	2.00 x 1.00 x 0.35	CXE15-48S3V3	-R, -S, -T, -RT, -ST	
5V			3A			15W	33 to 75VDC	87%	2.00 x 1.00 x 0.35	CXE15-48S05	-R, -S, -T, -RT, -ST	
5V			5A			25W	9 to 18VDC	80%	3.02 x 2.41 x 0.52	BXA30-12S05	-1, -F	
3.3V			6A			20W	36 to 75VDC	75%	3.02 x 2.41 x 0.52	BXA30-48S3V3	-1, -F	
3.3V			8A			26.4W	36 to 75VDC	81%	3.00 x 3.00 x 0.56	BXA30-48S3V3/8	-1, -F	
5V			5A			25W	36 to 75VDC	80%	3.02 x 2.41 x 0.52	BXA30-48S05	-1, -F	
12V			2.5A			30W	36 to 75VDC	85%	3.02 x 2.41 x 0.52	BXA30-48S12	-1, -F	
15V			2A			30W	36 to 75VDC	87%	3.02 x 2.41 x 0.52	BXA30-48S15	-1, -F	
+5V	-5V		+2.5A	-2.5A		30W	36 to 75VDC	80%	3.02 x 2.41 x 0.52	BXA30-48D05	-1, -F	
+12V	-12V		+1.25A	-1.25A		30W	36 to 75VDC	84%	3.02 x 2.41 x 0.52	BXA30-48D12	-1, -F	
+15V	-15V		+1A	-1A		30W	36 to 75VDC	86%	3.02 x 2.41 x 0.52	BXA30-48D15	-1, -F	
5V	+15V	-15V	+3A	+0.5A	-0.5A	30W	18 to 36VDC	81%	3.02 x 2.41 x 0.52	BXA30-24T05-15	-1, -F	
5V	+12V	-12V	+3A	+0.625A	-0.625A	30W	36 to 75VDC	83%	3.02 x 2.41 x 0.52	BXA30-48T05-12	-1, -F	

Continued



## General Isolated DC/DC Converters (2 to 40W)

Output Voltage			Output Current			Output Power	Input Voltage	Efficiency	Size (LxWxH in inches)	Part Number	Options
1	2	3	1	2	3						
3.3V			7A			23W	18 to 36VDC	75%	2.20 x 2.20 x 0.50	BXA40-24S3V3-SM <sup>(2), (3)</sup>	
5V			8A			40W	18 to 36VDC	81%	2.20 x 2.20 x 0.50	BXA40-24S05-M <sup>(2), (3)</sup>	-S, -SM
2.9V			6.9A			20W	36 to 75VDC	77%	2.20 x 2.20 x 0.50	BXA40-48S2V9-SM <sup>(2), (3)</sup>	
5V			8A			40W	36 to 75VDC	82%	2.20 x 2.20 x 0.50	BXA40-48S05-M <sup>(2), (3)</sup>	-S, -SM
12V			3.3A			40W	36 to 75VDC	87%	2.20 x 2.20 x 0.50	BXA40-48S12-M <sup>(2)</sup>	
5V	+12V	-12V	+6A	+0.4A	-0.4A	40W	36 to 75VDC	83%	2.20 x 2.20 x 0.50	BXA40-48T05-12-M <sup>(2)</sup>	
1.8V			8A			14.4W	18 to 36VDC	84%	2.20 x 2.20 x 0.40	EXA40-24S1V8	-V
2.75V			8A			22W	18 to 36VDC	87%	2.20 x 2.20 x 0.40	EXA40-24S2V75	-V
3.3V			8A			26.4W	18 to 36VDC	88%	2.20 x 2.20 x 0.40	EXA40-24S3V3	-V
5V			8A			40W	18 to 36VDC	90%	2.20 x 2.20 x 0.40	EXA40-24S05	-V
1.8V			8A			14.4W	36 to 75VDC	84%	2.20 x 2.20 x 0.40	EXA40-48S1V8	-V
2.75V			8A			22W	36 to 75VDC	86%	2.20 x 2.20 x 0.40	EXA40-48S2V75	-V
3.3V			8A			26.4W	36 to 75VDC	88%	2.20 x 2.20 x 0.40	EXA40-48S3V3	-V
5V			8A			40W	36 to 75VDC	91%	2.20 x 2.20 x 0.40	EXA40-48S05	-V
1.8V			6A			10.8W	33 to 75VDC	83%	1.90 x 1.39 x 0.34	SXE15-48S1V8	-R
2.5V			6A			15W	33 to 75VDC	85%	1.90 x 1.39 x 0.34	SXE15-48S2V5	-R
3.3V			4.5A			13.2W	33 to 75VDC	86%	1.90 x 1.39 x 0.34	SXE15-48S3V3	-R
5V			3A			15W	33 to 75VDC	87%	1.90 x 1.39 x 0.34	SXE15-48S05	-R
12V			1.25A			15W	33 to 75VDC	85%	1.90 x 1.39 x 0.34	SXE15-48S12	-R
5V	3.3V		3A	4.5A		15W	33 to 75VDC	86%	1.90 x 1.39 x 0.34	SXE15-48D05-3V3	-R
3.3V	2.5V		3.5A	4.5A		15W	33 to 75VDC	85%	1.90 x 1.39 x 0.34	SXE15-48D3V3-2V5	-R
1.8V			6A			10.8W	33 to 75VDC	83%	1.90 x 1.01 x 0.34	SXN15-48S1V8	-R
2.5V			6A			15W	33 to 75VDC	85%	1.90 x 1.01 x 0.34	SXN15-48S2V5	-R
3.3V			4.5A			15W	33 to 75VDC	86%	1.90 x 1.01 x 0.34	SXN15-48S3V3	-R
5V			3A			15W	33 to 75VDC	87%	1.90 x 1.01 x 0.34	SXN15-48S05	-R
5V	3.3V		3A	4.5A		15W	33 to 75VDC	86%	1.90 x 1.01 x 0.34	SXN15-48D05-3V3	-R
3.3V	2.5V		3.5A	4.5A		15W	33 to 75VDC	85%	1.90 x 1.01 x 0.34	SXN15-48D3V3-2V5	-R

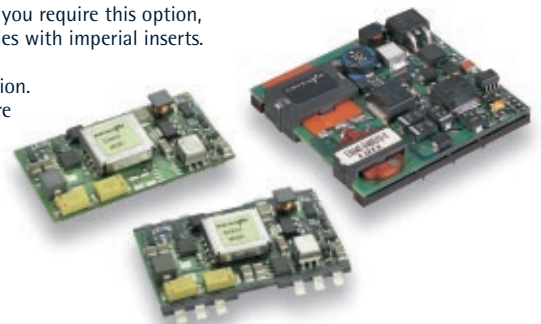
[http://www.artesyn.com/powergroup/general\\_isolated.htm](http://www.artesyn.com/powergroup/general_isolated.htm)

### Notes:

- (1) Maximum open pin voltage is 14VDC.
- (2) Units with the suffix '-M' at the end of the model number are offered as standard with metric threaded inserts (M3). To order units with imperial threaded inserts (4-40 UNC), please remove the suffix '-M' from the model number. These inserts are used for bolting the unit to a PCB and/or fixing heatsinks.
- (3) Remote sense is offered as standard on the 2.9V and 3.3V products. The BXA40-24S05 and BXA40-48S05 offer remote sense as an option, which is designated by adding the suffix '-S' to the part number, e.g. BXA40-48S05-SM (for units with metric inserts), or BXA40-48S05-S (for units with imperial inserts). For models without the remote sense option, pins 5 and 6 are absent.

### Options:

- 1 Extended operating temperature, includes heatsink option (maximum heatsink height is 12.5mm).
- F Optional internal filter. When the filter is added, the unit will meet VDE0871-A, VDE0878-A and EN55022-A.
- R The standard product features active-high remote on/off. Active-low logic can optionally be specified, by adding the suffix '-R' to the part number, e.g. SXE15-48S05-R.
- S Remote on/off (active-high). By adding the '-S' suffix to the part number, you indicate that you require this option, e.g. CXA10-48S3V3-S. Please also use this suffix for the BXA10 series and for the BXA40 series with imperial inserts.
- SM Optional remote sense (active-high). Use this suffix for the BXA40 series with metric inserts.
- T Trim pin. By adding the '-T' suffix to the part number, you indicate that you require this option.
- V True latching OVP. By adding the '-V' suffix to the part number, you indicate that you require this option.



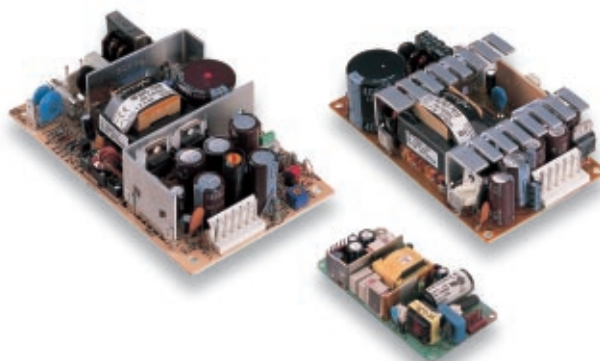
# Low Power AC/DC Power Supplies

If you need a low power AC/DC power supply, take a look at the following table. We offer over 100 different models, spanning power levels from 19.6 to 150W, output voltages from 3.3 to 48VDC, and with a wide choice of single and multiple output options. All the power supplies shown here are compact, high-efficiency switch-mode designs.

All Artesyn low power AC/DC power supplies feature a universal input - making them suitable for use anywhere in the world - and most of the models above 40W are available with harmonic current correction to meet the EN61000-3-2 standard. So whether you're seeking a simple low cost power supply for general use or a more specialist low-voltage, high current source for logic-intensive applications, we have the perfect solution.

Low Power AC/DC Power Supplies (19.6 to 150W)						
Output Power	Vout @ Max. Iout (Peak Iout) <sup>(6)</sup>				Size (LxWxH in inches)	Part Number
	1	2	3	4		
19.6W	5V @ 2A (2.5A)	12V @ 0.8A (1.2A)			4.00 x 2.07 x 0.91	NLP25-7629
19.8W	3.3V @ 6A (12A)				5.00 x 3.00 x 1.20	NFS40-7653 <sup>(1), (5)</sup>
19.8W	5.1V @ 3A (5A)	12V @ 0.2A (1A)	-12V @ 0.2A (1A)		5.00 x 3.00 x 1.20	NFS25-7629 <sup>(1), (5)</sup>
20.1W	5V @ 2A (2.5A)	12V @ 0.8A (1.2A)	-5V @ 0.1A (0.15A)		4.00 x 2.07 x 0.91	NLP25-7607
20.8W	5V @ 2A (2.5A)	12V @ 0.8A (1.2A)	-12V @ 0.1A (0.15A)		4.00 x 2.07 x 0.91	NLP25-7608
25W	5V @ 5A (6A)				4.00 x 2.07 x 0.91	NLP25-7605
25W	5.1V @ 2A (5A)	12V @ 1.5A (3A)			5.00 x 3.00 x 1.20	NFS25-7629 <sup>(1), (5)</sup>
25W	5.1V @ 2A (5A)	12V @ 1.5A (3A)	-12V @ 0.2A (1A)		5.00 x 3.00 x 1.20	NFS25-7608 <sup>(1), (5)</sup>
25W	12V @ 2.08A (2.5A)				4.00 x 2.07 x 0.91	NLP25-7612
25W	24V @ 1.04A (1.25A)				4.00 x 2.07 x 0.91	NLP25-7624
25W	48V @ 0.52A (0.6A)				4.00 x 2.07 x 0.91	NLP25-7617
26.4W	3.3V @ 8A (10A)				4.25 x 2.50 x 1.15	NLP40-7653 <sup>(1), (5)</sup>
28.8W	5.1V @ 4A (7A)	12V @ 0.35A (1A)	-12V @ 0.35A (1A)		5.00 x 3.00 x 1.20	NFS40-7628 <sup>(1), (5)</sup>
28.8W	5.1V @ 4A (5A)	12V @ 0.35A (0.5A)	-12V @ 0.35A (0.5A)		5.00 x 3.00 x 1.20	NFS40-7928 <sup>(1), (5), (7)</sup>
30.5W	5.1V @ 6A (12A)				5.00 x 3.00 x 1.20	NFS40-7605 <sup>(1), (5)</sup>
33W	3.3V @ 10A (13A)				5.00 x 3.00 x 1.26	NLP65-3300 <sup>(1), (5)</sup>
38.4W	24V @ 1.6A (2.5A)				4.25 x 2.50 x 1.15	NLP40-7624 <sup>(1), (5)</sup>
38.4W	24V @ 1.6A (2.5A)				5.00 x 3.00 x 1.20	NFS40-7624, 7924 <sup>(1), (5), (7)</sup>
38.4W	48V @ 0.8A (1.1A)				4.25 x 2.50 x 1.15	NLP40-7617 <sup>(1), (5)</sup>
39W	15V @ 2.6A (3.6A)				4.25 x 2.50 x 1.15	NLP40-7615 <sup>(1), (5)</sup>
39W	15V @ 2.6A (4A)				5.00 x 3.00 x 1.20	NFS40-7615, 7915 <sup>(1), (5), (7)</sup>
39.6W	12V @ 3.3A (5A)				5.00 x 3.00 x 1.20	NFS40-7612, 7912 <sup>(1), (5), (7)</sup>
39.6W	12V @ 3.3A (4.5A)				4.25 x 2.50 x 1.15	NLP40-7612 <sup>(1), (5)</sup>
40W	3.3V @ 4A (5A)	12V @ 2A (3A)	-12V @ 0.2A (1A)		4.25 x 2.50 x 1.15	NLP40-76T366 <sup>(1), (5)</sup>
40W	5V @ 8A (10A)				4.25 x 2.50 x 1.15	NLP40-7605 <sup>(1), (5)</sup>
40W	5V @ 4A (5A)	12V @ 2A (3A)			4.25 x 2.50 x 1.15	NLP40-7629 <sup>(1), (5)</sup>
40W	5V @ 4A (5A)	12V @ 2A (3A)	-12V @ 0.2A (1A)		4.25 x 2.50 x 1.15	NLP40-7608 <sup>(1), (5)</sup>
40W	5V @ 4A (5A)	15V @ 1.6A (2A)	-15V @ 0.2A (1A)		4.25 x 2.50 x 1.15	NLP40-7610 <sup>(1), (5)</sup>
40W	5.1V @ 3A (7A)	12V @ 2A (3A)	-12V @ 0.35A (1A)		5.00 x 3.00 x 1.20	NFS40-7608, 7908 <sup>(1), (5), (7)</sup>
40W	5.1V @ 3A (7A)	12V @ 2A (3A)	-5V @ 0.35A (1A)		5.00 x 3.00 x 1.20	NFS40-7607 <sup>(1), (5)</sup>
40W	5.1V @ 3A (7A)	15V @ 2A (2.5A)	-15V @ 0.35A (1A)		5.00 x 3.00 x 1.20	NFS40-7610, 7910 <sup>(1), (5), (7)</sup>
40W	12V @ 1.8A (2.2A)	-12V @ 1.8V (2.2A)			4.25 x 2.50 x 1.15	NLP40-7627 <sup>(1), (5)</sup>
50W	4.5-5.5V @ 10A (12A)				5.00 x 3.00 x 1.26	NLP65-3334 <sup>(1), (5)</sup>
50W	5V @ 10A (13A)				5.00 x 3.00 x 1.26	NLP65-7605, 9605 <sup>(1), (3), (4), (5)</sup>
50W	5V @ 10A (13A)				5.00 x 3.00 x 1.26	NLP65-9905 <sup>(1), (3), (4), (5), (7)</sup>
57W	5.1V @ 5.7A (9.1A)	12V @ 1.9A (3.3A)	-12V @ 0.44A (0.81A)		6.18 x 3.63 x 1.38	NLP65-3304
64.8W	12V @ 5.4A (7A)				5.00 x 3.00 x 1.26	NLP65-7612, 9612 <sup>(1), (3), (4), (5)</sup>
64.8W	12V @ 5.4A (7A)				5.00 x 3.00 x 1.26	NLP65-9912 <sup>(1), (3), (4), (5), (7)</sup>
64.8W	24V @ 2.7A (3.5A)				5.00 x 3.00 x 1.26	NLP65-7624, 9624 <sup>(1), (3), (4), (5)</sup>
64.8W	24V @ 2.7A (3.5A)				5.00 x 3.00 x 1.26	NLP65-9924 <sup>(1), (3), (4), (5), (7)</sup>

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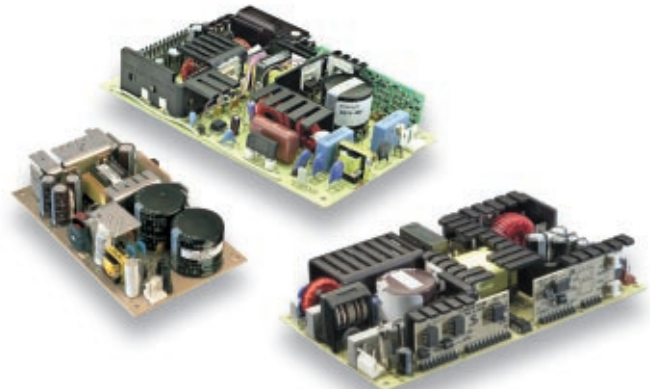
# Low Power AC/DC Power Supplies

Low Power AC/DC Power Supplies (19.6 to 150W)						
Output Power	Vout @ Max. Iout (Peak Iout) <sup>(6)</sup>				Size (LxWxH in inches)	Part Number
	1	2	3	4		
65W	5V @ 7A (9.1A)	12V @ 2.5A (3.3A)			5.00 x 3.00 x 1.26	NLP65-7629, 9629 <sup>(1), (3), (4), (5)</sup>
65W	5V @ 7A (9.1A)	12V @ 2.5A (3.3A)			5.00 x 3.00 x 1.26	NLP65-9929 <sup>(1), (3), (4), (5), (7)</sup>
65W	5V @ 7A (9.1A)	24V @ 2A (2.6A)			5.00 x 3.00 x 1.26	NLP65-7620, 9620 <sup>(1), (3), (4), (5)</sup>
65W	5V @ 7A (9.1A)	24V @ 2A (2.6A)			5.00 x 3.00 x 1.26	NLP65-9920 <sup>(1), (3), (4), (5), (7)</sup>
65W	5V @ 7.5A (9.1A)	12V @ 2.5A (3.3A)	-12V @ 0.65A (0.81A)		5.00 x 3.00 x 1.26	NLP65-7608, 9608 <sup>(1), (3), (4), (5)</sup>
65W	5V @ 7.0A (9.1A)	12V @ 2.5A (3.3A)	-12V @ 0.50A (0.81A)		5.00 x 3.00 x 1.26	NLP65-9908 <sup>(1), (3), (4), (5), (7)</sup>
65W	5V @ 7.5A (9.1A)	15V @ 2.2A (2.9A)	-15V @ 0.65A (0.85A)		5.00 x 3.00 x 1.26	NLP65-7610, 9610 <sup>(1), (3), (4), (5)</sup>
65W	5V @ 7.0A (9.1A)	15V @ 2.2A (2.9A)	-15V @ 0.65A (0.85A)		5.00 x 3.00 x 1.26	NLP65-9910 <sup>(1), (3), (4), (5), (7)</sup>
65W	5V @ 7A (9.1A)	24V @ 1.5A (2.6A)	12V @ 0.7A (1A)		5.00 x 3.00 x 1.26	NLP65-3322 <sup>(1), (5)</sup>
66W	15V @ 4.4A (5.7A)				5.00 x 3.00 x 1.26	NLP65-7615, 9615 <sup>(1), (3), (4), (5)</sup>
66W	15V @ 4.4A (5.7A)				5.00 x 3.00 x 1.26	NLP65-9915 <sup>(1), (3), (4), (5), (7)</sup>
70W	5V @ 10.5A (14A)	3.3V @ 10.5A (14A)	12V @ 0.65A (0.8A)		5.50 x 3.00 x 1.26	NLP70-9693
72.6W	3.3V @ 22A				6.80 x 3.80 x 1.26	NLP150L-96S3
75W	5V @ 15A (22A)				6.50 x 3.00 x 1.26	NLP110-9605, 9905 <sup>(7)</sup>
75W	15V @ 5A (7.3A)				7.00 x 4.25 x 1.80	NLP110-7615, 7915 <sup>(1), (5), (7)</sup>
76.8W	12V @ 6.4A (11.5A)				6.50 x 3.00 x 1.26	NLP110-9612, 9912 <sup>(7)</sup>
76.8W	24V @ 3.2A (6A)				6.50 x 3.00 x 1.26	NLP110-9624, 9924 <sup>(7)</sup>
76.8W	48V @ 1.6A (2.5A)				6.50 x 3.00 x 1.26	NLP110-9617, 9917 <sup>(7)</sup>
81.6W	5.1V @ 16A (22A)				7.00 x 4.25 x 1.80	NFS110-7605 <sup>(1), (5)</sup>
83.2W	3.3V @ 13A (22A)	2.5V @ 13A (22A)	12V @ 0.65A (1A)		6.50 x 3.00 x 1.26	NLP110-9694, 9994 <sup>(7)</sup>
84W	12V @ 7A (9A)				7.00 x 4.25 x 1.80	NFS110-7612, 7912 <sup>(1), (5), (7)</sup>
84W	24V @ 3.5A (4.5A)				7.00 x 4.25 x 1.80	NFS110-7624, 7924 <sup>(1), (5), (7)</sup>
103.3W	5.1V @ 8A (20A)	12V @ 4.5A (9A)	-12V @ 0.5A (1.5A)	-5V @ 0.5A (1.5A)	7.00 x 4.25 x 1.80	NFS110-7601P, 7901P <sup>(1), (5), (7)</sup>
110W	5V @ 13A (18A)	3.3V @ 13A (20A)	12V @ 0.65A (1A)		6.50 x 3.00 x 1.26	NLP110-9693, 9993 <sup>(7)</sup>
110W	5.1V @ 8A (20A)	15V @ 4A (7.5A)	-15V @ 0.5A (1.5A)	-5V @ 0.5A (1.5A)	7.00 x 4.25 x 1.80	NFS110-7604P, 7904P <sup>(1), (5), (7)</sup>
110W	5.1V @ 8A (20A)	24V @ 3.5A (4.5A)	12V @ 4.5A (9A)	-12V @ 0.5A (1.5A)	7.00 x 4.25 x 1.26	NLS110-9602
110W	5.1V @ 8A (20A)	24V @ 3.5A (4.5A)	12V @ 4.5A (9A)	-12V @ 0.5A (1.5A)	7.00 x 4.25 x 1.80	NFS110-7602P, 7902P <sup>(1), (5), (7)</sup>
110W	12V @ 6.5A (10A)	3.3V @ 13A (22A)	-12V @ 0.65A (1A)		6.50 x 3.00 x 1.26	NLP110-9695, 9995 <sup>(7)</sup>
110W	12V @ 6.5A (10A)	5V @ 13A (22A)	-12V @ 0.65A (1A)		6.50 x 3.00 x 1.26	NLP110-9608, 9908 <sup>(7)</sup>
110.4W	12V @ 9.2A				6.80 x 3.80 x 1.26	NLP150L-96S6
110.4W	24V @ 4.6A				6.80 x 3.80 x 1.26	NLP150L-96S8
110.4W	48V @ 2.3A				6.80 x 3.80 x 1.26	NLP150L-96S9
112.2W	5.1V @ 22A				6.80 x 3.80 x 1.26	NLP150L-96S5
150W	5.1V @ 20A	3.3V @ 10A	12V @ 2A	12V, iso @ 0.65A	7.80 x 3.80 x 1.26	NLP150L-96Q5366
150W	5.1V @ 20A	3.3V @ 10A	12V @ 2A		6.80 x 3.80 x 1.26	NLP150L-96T536
150W	12V @ 9.2A	5.1V @ 6A	24V @ 2A		6.80 x 3.80 x 1.26	NLP150L-96T658

**Notes:**

- (1) Mounting bracket available. Please download the relevant product data sheet from our web site for full information.
- (2) Trim adjust on 5V output.
- (3) Only the 9XXX models are harmonic current corrected to EN61000-3-2.
- (4) Grounding option available. Please download the relevant product data sheet from our web site for full information.
- (5) Cover/enclosure available. Please download the relevant product data sheet from our web site for full information.
- (6) Maximum current condition without forced air. Please download the relevant product data sheet from our web site for more information about output power with airflow.
- (7) The 79XX and 99XX models have full medical safety approval per UL2601-1, C22.2 No. 601.1-M90, VDE0750, IEC60601-1 and EN60601-1.

[http://www.artesyn.com/powergroup/low\\_power\\_ac\\_dc.htm](http://www.artesyn.com/powergroup/low_power_ac_dc.htm)



# Detailed product information

All products in this Quick-select Guide are backed by comprehensive short-form and long-form datasheets, together with application notes, all of which are available as PDFs from our web site:

[www.artesyn.com/powergroup/products.htm](http://www.artesyn.com/powergroup/products.htm)

## Technical support

We are committed to providing customers with a high level of service and technical support. For assistance with any of our products, please visit:

[www.artesyn.com/powergroup/support.htm](http://www.artesyn.com/powergroup/support.htm)

## Purchasing products

Artesyn sells its products directly, and through a worldwide network of sales representatives and distributors. To locate your nearest supplier please visit:

[www.artesyn.com/powergroup/sales.htm](http://www.artesyn.com/powergroup/sales.htm)

Or, contact a Customer Account Representative directly. When calling, please request the Customer Service Department:

### In North America

Email: [sales.us@artesyn.com](mailto:sales.us@artesyn.com)

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Tel: +353 24 93130

## My power solution:

[www.artesyn.com/powergroup/products.htm](http://www.artesyn.com/powergroup/products.htm)

