



# Power components and solutions for industrial applications and equipment



consult. design. integrate.

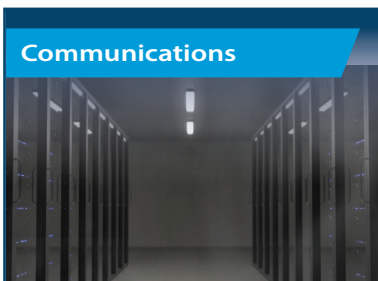


## Solutions and components designed to power the future of technology

For companies to stay competitive in a global technology market with increasingly empowered consumers, every company needs to find a way to differentiate themselves from their competitors. This often means a relentless drive for change and innovation, resulting in streamlined processes and increasing specialisation, with a wider range of applications. Choosing the right component is increasingly challenging for these specialised applications.

We offer a specialist portfolio of market-leading standard and custom products and services which are ideal for the needs of industrial applications and can meet each application's industry standards. We utilise our expert product knowledge and in-depth experience to bring ideas from a concept to production, supporting every step of the journey.

Every device needs power, and there are a wide variety on the market to choose from, however, the features each component includes, ie arc limits, tight line and load regulation and voltage monitoring, can make a huge difference to the overall efficiency and reliability of the end device.



## Solutions for today's challenges and developing tomorrow's future

Acal BFi are a trusted partner offering leading-edge technology solutions for application-specific designs, supporting hundreds of customers across Europe. Our engineers are subject-matter specialists who combine their technology expertise with industry sector experience to find the right product or solution for your project and application.

The most important thing for us is to help you find or create the right solution for your requirements. So, when you are ready, contact any of our offices across Europe, and we will be happy to help you with your next challenge.

Our portfolio of high-quality AC/DC and DC/DC converters includes some of the industry's most respected and innovative power supply manufacturers. Our standard range starts at 1W DC/DC converters and includes open-frame components and goes up to 100kW AC/DC for customised power supply units. Our in-house design and customisation capabilities and network of expert partners enables us to help you find, customise or design an efficient power supply for your industrial application.

## Discover our range of AC/DC and DC/DC converters

AC/DC and DC/DC from 1 – 36000W							
	PCB Mounted		Internal	External	Modular	Rack-based	
	(AC/DC)	(DC/DC)	(O-F/ Encl.)	(Wall / Desk)		(AC/DC)	(DC/DC)
			500 – 1000W (Encl.)		600 – 1000W (fanless) 200 – 1800W (forced air)		
	75 - 2400W (PFC – Bricks)	3 – 1300W	20 – 4920W	3 – 100W	400 - 24,000W	460 - 3300W Racks up to 36kW	460 - 1200W
	6 – 60W (Module)	1 – 75W (SIP/ DIP/SMT) 30 – 750W (Brick)	420 – 360W (O-F)	6 – 30W (Wall-plug) 20 – 160W (Desk-top)			
			440 – 550W (O/F) 450 – 1000W (Encl.)	30W (Wall- plug) 36 – 180W (Desk-top)			
	2,5 – 60W (Module)						
		0,25 – 60W (SIP/DIP/SMT) 0,5 – 2,0A (non-isol.)				75 – 480W (DIN-Rail) 10k – 17kW (19")	
			12 – 500W (O-F) 75 – 3000W (Encl.)	6 – 40W (Wall-plug) 12 – 240W (Desk-top)			
		25 – 600W (Brick) 5 – 55A (non- isol.)	300 – 1400W (Encl.)				
			30 – 400W (O-F)	20 – 200W (Desk-top)			
			30 – 350W (O-F) 400 – 1200W (ATX)	15 – 65W (Wall-plug) 15 – 330W (Desk-top)		40 – 120W (DIN-Rail)	
			60 – 3000W (Encl.)			60 – 3000W (19")	300 – 2200W (19")

\* Skynet - Available in BeNeLux and Nordics

\*\* FSP - Available in UK, Germany, France and Italy

\*\*\* Zippy - Available in BeNeLux and Nordics

## PCB-mounted

### AC/DC

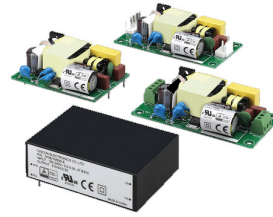
Our low-voltage AC/DC power bricks provide design engineers with efficient, flexible and isolated power conversion modules which can be mounted externally or internally on a PCB. Our specialist portfolio offers a market-leading range of PCB AC/DC converters on industry-standard footprints.

### DC/DC

Do you need a DC/DC converter with the flexibility and safety features needed to change and regulate the current? Our portfolio of DC/DC converters are designed to meet the needs of industrial applications such as powering sensors, isolated interfaces, auxiliary power supplies, A/V as well as IT equipment.



### PCB-mount AC/DC modules



#### Key features

- Power: 20W
- Output range: 5 – 24VDC
- Peak load: up to 200%
- Low leakage current

### PCB-mount DC/DC converters



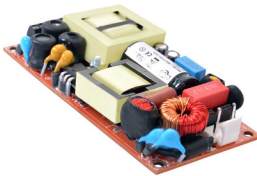
#### Key features

- Power range: 1 – 150W
- Output range: 3,3 – 24VDC
- Package: SIP7 to 1/4 Brick
- Low leakage current

## Open frame and enclosed power supplies

For industrial applications with high-power requirements, our internal power supplies can easily be mounted within your device. Our portfolio offers a market-leading range of very power-dense supplies in any form factor. By partnering with us to choose from our range we can support you in designing a smaller, more compact and powerful end product.

### AC/DC open- & u-frame



#### Key features

- Power range: 20 – 800W
- Output range: 5 – 58VDC
- Ultra low profile (to 0.75")
- High power density
- Low leakage current

### AC/DC enclosed



#### Key features

- Power range: 300 – 1400W
- Output range: 5 – 58VDC
- Low leakage current
- Variable fan speed



## External wall-plug and desk-top adaptors

When an integrated power supply design is not an option, cost-effective external adaptors are a great alternative. Our range of external supplies provides a choice of wall-plug and desktop adaptors with universal inputs, a range of output voltages and certifications for worldwide industrial standards. We can also modify standard solutions to make your product stand out in the market place.

### AC/DC wall-plug adaptors



#### Key features

- Power range: 10 – 32W
- Output range: 5 – 48VDC
- Interchangeable AC plugs
- up to 10 years e-cap life

### AC/DC desk-top adaptors



#### Key features

- Power range: 10 – 240W
- Output range: 5 – 48VDC
- Altitude up to 5000m
- up to 10 years e-cap life



## Modular

Our modular power supplies give you the flexibility to create your own user-configurable power supply. The range includes market-leading fanless, modular power supplies which can be customised with several card modules to create the exact power supply you need. You can flexibly choose from dual output options, various voltages, currents and more. You can also, effectively change the character of the power supply from being a classic power supply, to become a constant current source or charger. We are uniquely positioned with our in-house design engineers, to pre-configure modules, providing you with a bespoke, plug-and-play solution.

### Modular power supplies



#### Key features

- Power range: 200 – 1800W (up to 1000W fan-less with natural convection)
- Output range: 1 – 58VDC
- Up to 12 isolated modular outputs
- PMBus™ for complete digital communications and control



## Rack-based

For racks with high-power requirements, our products can be stacked to provide a powerful option in one rack or on their own, for multiple devices and applications. Our portfolio offers a market-leading range of rack-mounted transformers, providing reliable and highly efficient power supply.

**ARTESYN**  
Embedded Power | An Advanced Energy Company

**RSG**

### 19" Rack-based



#### Key features

- 19" Rack, 2 or 3 U
- Up to 17kW output power
- Current and voltage is fully adjustable
- Water or forced air cooling is possible

## Power factor correction (PFC)

Our high power, high-efficiency PFC modules give you high power quality when it is critical to efficient device operation. The range includes market-leading reliable PFC modules, available with a range of features to create the exact power supply you need. With our PFC modules, you can draw a nearly perfect sinusoidal current.

**ARTESYN**  
Embedded Power | An Advanced Energy Company

**SynQor**

### PFC



#### Key features

- Universal input voltage range: 85-264 Vrms
- Up to 700 W output power
- $\geq 0.99$  power factor
- High efficiency:  $>96\%$  (230 Vrms),  $>94\%$  (115 Vrms)
- Up to three modules can be paralleled with current sharing

## EMI filters

When you need devices with limited downtime and efficient power solutions, our EMI suppression filters can easily be included within your device. Our portfolio offers a market-leading range of reliable AC and DC EMI filters which comply with EMI standards and can be customised to your exact requirements. By partnering with us, we can support you in designing a more efficient and reliable end product.



### EMI filters



#### Key features

- Currents from 5 – 30A
- Max. input voltages from 75 – 200V
- Sizes from 2"x1" to Quarter Brick
- Low DC resistance

## Need help building a custom power supply?

Our Power team offer much more than just off-the-shelf products.

When designing electronic equipment, power supplies can often cause complex design challenges, particularly in the areas of heat dissipation, derating, space, durability and reliability. Acal BFi have dedicated competence centres in Europe providing in-house design, configuration and pre-compliance testing facilities, with all the relevant certifications. We can offer a hugely flexible range of options for powering your design.

### Custom services



#### Key features

- Modular power supply configuration
- Product integration and assembly
- On-site EMC chamber for pre-compliance testing
- Repairs
- Custom power supply design

## Our European office details



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