

# SWITCHING POWER SUPPLIES CUSTOM OR STANDARD

- SWITCHING POWER SUPPLIES
- RECTIFIERS · DC/DC CONVERTERS
- BATTERY CHARGERS · DC/AC INVERTERS
- MODULAR POWER SYSTEMS
- UPS SYSTEMS (DC&AC)
- DC INPUT BACK-LIGHT INVERTERS



**ABSOPULSE**  
ELECTRONICS LTD.

**A Reputation Built on Quality  
and Service Since 1982**

[www.absopulse.com](http://www.absopulse.com)

**Explore Our Capabilities...**

# TOTAL COMMITMENT...

## ...FROM SPECIFICATION TO DELIVERY

Absopulse Electronics Ltd has established a reputation for innovation, quality and product reliability over the past two decades. This reputation has allowed us to build long-term partnerships with leading electronics corporations in North America and in countries around the globe.

We specialize in designing and manufacturing custom, semi-custom and standard switching power supplies and related products for professional applications.

Today, our products power electronic equipment in telecommunications, mining, transportation, aeronautics, public utilities and military installations, for any imaginable application.

## ABSOPULSE GUARANTEES:

- Cost-effective technical solutions
- Sound engineering capabilities
- Field proven designs to meet virtually any electrical and mechanical specifications
- Rugged construction
- High quality
- Rapid product development
- Responsive, flexible customer service



**Tony Szullo**  
President



**Pawel Wesolowski**  
Engineering



**John Gowanlock**  
Operations &  
Sales Manager



**Nanno Habets**  
Marketing Manager

WE RESOLVE THE TOUGHEST DESIGN CHALLENGES

# EXPERIENCED, DEDICATED ENGINEERING SUPPORT

Most of our new customers are referred to us by existing clients.

Absopulse's technical team works closely with customers on projects from initial contact to final delivery.

Our engineers will review your specifications in detail and make suggestions wherever possible to optimize performance and reduce costs.

Several hundred existing designs provide us with the ability to develop products rapidly which allows us to keep design costs low, even for highly custom projects.

Flexible production systems enable us to manage projects ranging in size from a few units to ten thousand units.

Each Absopulse power supply undergoes rigorous testing and burn-in throughout the production process. Our use of the highest quality components, with many years of established reliability, contributes to very high MTBF ratings based on field data.

Our quality programs have been approved by international agencies and corporate customers. We are NATO listed, BABT approved, and are also able to provide in-house CSA, UL and TUV approvals.



**Please contact us by phone, fax or e-mail with your specifications.**

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# GENERAL POWER SUPPLIES AND DC/DC CONVERTERS



Open PCB



Enclosed package



Din-rail mount



Eurocard plug-in modules.

As long-standing specialists in designing converters, rectifiers and battery chargers, we are able to manufacture virtually any input/output combination, with output power ranging from a few watts to multi-kilowatts.

Absopulse power supplies are designed to meet the stringent requirements demanded for professional applications. They are electrically and mechanically rugged to ensure reliable operation under harsh field conditions.

Stand alone power supplies are available in a broad range of formats and packaging.

These photographs show just a few examples:



Larger packages for higher power requirements



# MODULAR POWER SYSTEMS

One of our key strengths lies in building modular power supply systems for a wide variety of applications.

## Absopulse modular systems offer many advantages:

- Easy servicing in the field
- N+1 redundancy
- High output power
- Multiple outputs
- Expandable
- Re-configurable
- Power distribution can be integrated
- Wide range of options, alarms and interfaces

The basic components of these systems are hot-pluggable, standard Eurocard format power supply modules in pre-wired 19" and 23" shelves. Several shelves can be connected in parallel for higher output power. Features such as fused distribution panels, breakers, low battery disconnect, battery temperature compensation, volt and current meters, front panel adjustment and a range of alarm circuit options are also offered.

We can provide entire turn-key power systems.

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**5kW modular AC/DC rectifier system with distributed 54VDC output.**



**1kW extra-shallow depth, hot-pluggable, modular AC/DC rectifier system.**



**2.5kW modular AC/DC rectifier system with distributed 27VDC output.**

# TELECOM QUALITY DC/AC INVERTERS, FREQUENCY CONVERTERS & ON-LINE INVERTER SYSTEMS



1kVA Sine-wave inverter



2kVA Sine-wave inverter



500VA 19" Rack mount sine-wave inverter

Absopulse offers a broad range of telecom quality sine-wave inverters for professional applications, with output power ranging from 250VA to 5000VA.

We also manufacture AC to AC frequency converters with any input and output combination.

Our pure sine-wave, on-line UPS systems are mostly customized designs.

These products are designed electrically and mechanically to achieve the optimum ruggedness required for transportation, industrial, telecommunications, military and airborne applications. With additional ruggedizing, a high shock withstanding capability of 100g is achievable.

19" or 23" rack-mount hardware is offered for all models. Plug-in modular system alternatives are available for all larger models.

We are always pleased to provide a quotation for custom or semi-custom versions on all of our products.

Selected models are available from stock.

## Telecom Quality

In addition to quality of workmanship, this concept indicates that our inverters comply fully with EMI requirements for EN 55022 Class B with a significant dB margin. The audio frequency range noise (C-message) on the input is also very low.

Absopulse inverters have a multi-stage filter on the input and output, and have large hold-up capacitors on the internal 200VDC or 400VDC rail for complete elimination of the 60Hz ripple on the inverter input.

By comparison, many commercially available inverters are not suitable for telecom applications. They typically have no input filters or hold-up capacitors and the input current appears as half sine-waves rather than a smooth DC. The input on these inverters is usually also loaded with switching frequency noise. Such inverters rely on the proximity of the battery.

The above factors should be taken into account when comparing prices.

# BACK-LIGHT INVERTERS & ELECTRONIC BALLASTS

Absopulse designs and manufactures a wide range of custom and semi-custom DC-input fluorescent lamp inverters. Our inverters provide high efficiency, mechanical and electrical ruggedness, low EMI, outstanding reliability and a dimming range exceeding 2000:1.

The main product groups are:

## **Military, Airborne and Mobile Back-light Inverters.**

Manufactured using components with established reliability and precision-milled casing, these inverters can withstand very harsh environments and temperature ranges of  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

## **Commercial and Industrial Inverters.**

The designs of these custom and semi-custom lamp inverters are optimized to achieve lower cost whilst maintaining high reliability and mechanical and electrical ruggedness. They can be used for a wide range of applications:

**Back-light Inverters** for LCD back-lighting and instrumentation.

**UV lamp inverters**, used for water and air purification, as well as for scientific and other applications.

**Standard fluorescent lamp inverters** for mobile equipment, public utilities, machinery, exit and commercial signs, and edge-lighting.



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# LABORATORY POWER SUPPLIES

Most of our laboratory power supplies are completely modular, allowing for easy servicing and expandability, or quick re-configuration. The ruggedness of our designs ensures many years of dependable operation.

The MLP 150 series (illustrated here) is an example of our custom configurable, multiple output modular laboratory power supplies. Each plug-in module operates as a completely independent universal input power supply which can be assembled in any combination of up to 5 modules in a 3U x 19" rack.



# SELECTED MODELS IN STOCK



MIW 100  
Chassis mount



EUW 99 and EUW 150  
DIN-rail mount



EUW 150  
Chassis mount



BAF 236 - 24-48V  
Chassis mount

A growing range of selected models are available from stock or with short delivery times. Here are a few examples:

The **MIW Series** offers low cost, universal input and a wide variety of outputs in the range of 100W to 150W. Advanced IGBT technology and optimized magnetics ensure high efficiency and outstanding reliability. The series meets common approval requirements, is conduction/convection cooled and fully protected. Redundancy options are available.

The **EUW Series** is electrically very similar to the MIW series, but adapted for European requirements. As with the basic MIW series, our EUW power supplies are highly filtered to meet EN55022 Class B EMI requirements. DIN-rail, chassis mounted and E-card versions are available.

The **BAF Series** was specifically designed to meet the stringent demands of the telecom market. These field-proven designs are fully protected, have a wide range of input and output options and provide 200W, 300W or 500W output power.

We also keep a significant stock for existing customers for JIT, LOI or blanket order arrangements. We would be pleased to offer you the same arrangement if required.

**ABSOPULSE**  
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