

POWER ELECTRONICS & INDUSTRIAL CONTROL SOLUTIONS

Reliable Power. Intelligent Control. Engineered for Industry.



MODULAR DC



DIN RAIL POWER SUPPLIES



FREQUENCY CONVERTERS



HIGH VOLTAGE POWER SUPPLIES



MOTOR DRIVE



OPEN FRAME POWER SUPPLIES

● RELIABLE

● MODULAR

● INTELLIGENT

● CUSTOM ENGINEERED

PRODUCT BROCHURE

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COMPANY PROFILE

Reliable Power. Intelligent Control. Engineered for Industry.

BAB POWER is an industrial power and electrical solutions company focused on developing reliable, efficient, and application-oriented products for demanding industrial environments. Its product portfolio includes modular DC power systems, high frequency inverters, DIN rail power supplies, and motor drive cabinet solutions designed for power conversion, motor control, automation, and critical electrical applications. The company's product direction emphasizes modularity, operational reliability, ease of integration, and maintainability.

BAB POWER's modular power supply solutions are intended for applications requiring high-current DC power with scalable architecture. The company has developed rack-based power supply systems incorporating multiple power modules, local monitoring, DC output distribution, remote sensing, alarm interfaces, and redundant AC input arrangements. These systems are designed to support applications where continuous and dependable DC power availability is important.

For industrial control panels and automation systems, BAB POWER also offers DIN rail power supplies. The DRP series demonstrates the company's focus on compact industrial designs, universal AC input capability, regulated DC output, protection functions, status indication, and convenient DIN rail installation. Such products are suitable for control systems, instrumentation, PLC panels, machine automation, and other industrial electrical installations.

BAB POWER further addresses industrial motor-control requirements through its Motor Drive Cabinet (MDC) solutions. These cabinets integrate motor drives, electrical protection, power distribution, control components, and intelligent HMI functions into a modular enclosure. The solutions are positioned for applications including water and wastewater systems, HVAC, pumps and booster systems, conveyors, fans and blowers, process industries, oil and gas, and marine and offshore installations.

Across its product range, BAB POWER focuses on practical engineering principles: reliability, modular design, intelligent monitoring and control, serviceability, efficient power management, and flexible customization. By combining power electronics, electrical distribution, motor control, protection, and user-interface technologies, the company aims to provide integrated solutions that simplify installation and support dependable long-term operation.

BAB POWER works toward serving OEMs, system integrators, panel builders, infrastructure projects, manufacturing facilities, and industrial users that require engineered power and control solutions tailored to their applications.

RELIABILITY • MODULARITY • INTELLIGENT CONTROL • SERVICEABILITY • CUSTOMIZATION

MODULAR DC POWER SYSTEMS

54 VDC / 500 A Modular Power Supply Rack



A configurable high-density DC power system designed for high availability and ease of expansion. Five hot-swappable 54 V / 100 A modules provide up to 500 A total system current, supported by dual AC inputs, intelligent monitoring, remote sense and alarm interfaces.

HIGHLIGHTS

- 54 V DC output; up to 500 A total system current
- Five hot-swappable 54 V / 100 A modules
- Active current sharing with N+1 redundancy
- Front LCD voltage/current monitoring and local controls
- Dual 100–240 VAC inputs, DC output bus, remote sense and dry-contact alarm
- 19-inch rack mounting, 6U form factor

PARAMETER

SPECIFICATION

System output	54 V DC / 500 A max.
Module rating	54 V / 100 A each; 5 modules
Efficiency	>95%
Line / load regulation	±0.5% / ±0.5%
Protection	Input fuse, OVP, OCP, OTP, fan failure
Cooling	Forced air, rear to front

COMPACT AC/DC POWER SUPPLIES

DIN rail and open-frame solutions for industrial electronics

DRP-120-24 DIN RAIL POWER SUPPLY



24 V DC | 5 A | 120 W

Universal 100–240 VAC input, 50/60 Hz. Compact 40 mm slim DIN-rail profile with DC OK indication, front voltage adjustment and short-circuit / overload / over-voltage protection.

Applications: PLC panels, machine control, building automation, telecom/networking, CCTV, instrumentation and OEM machinery.

SPS SERIES OPEN-FRAME AC/DC POWER SUPPLY



Flexible PCB / baseplate power conversion

DC output variants: 3.3 / 5 / 12 / 15 / 24 / 36 / 48 V. Output current options: 1 / 2 / 3 / 4 / 5 / 10 A. Open-frame construction with screw-terminal input/output and on-board heat sink.

Typical uses include industrial automation, PLC/HMI panels, machine tools, process control, robotics, instrumentation, telecom, security/CCTV, building automation and embedded/OEM systems.

SPS configuration items marked TBD in the technical datasheet are to be decided by the customer.

HIGH FREQUENCY POWER CONVERSION

400 Hz Frequency Converter



BAB POWER frequency converters provide controlled AC frequency conversion for industrial, test, utility and OEM applications. The enclosed system integrates operator HMI, status indication, local controls, emergency stop and ventilated cabinet construction.

KEY ELECTRICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Input voltage	230 / 415 V AC
Output voltage	230 / 415 / 630 VAC
Output frequency	400 Hz
Operator interface	Touchscreen HMI
Controls	START / STOP, emergency stop, HMI frequency setting
Design features	SiC-based power design; communication interfaces; lockable enclosure

TYPICAL APPLICATIONS

- Industrial power conversion
- Motor / test systems
- Plant utility frequency adaptation
- OEM integration

Final ratings, protection, cooling, enclosure class and options are subject to the approved project configuration.

HIGH VOLTAGE DC POWER SUPPLIES

HVPS-5K Series — adjustable output up to 5000 VDC

BAB POWER HVPS-5K SERIES HIGH VOLTAGE DC POWER SUPPLY

OUTPUT: 0 – 5000 VDC

KEY FEATURES

- Output Voltage: 0 – 5000 VDC (Adjustable)
- Output Power: 100 W to 2000 W (See table)
- High Efficiency & Low Ripple
- Precise Regulation & Low Noise
- Over Voltage, Over Current & Short Circuit Protection
- Output Enable / Disable & Interlock
- Local Control, Analog & Digital Remote Control
- HV ON Indicator & Fault Indication
- High Isolation & Safety

AVAILABLE MODELS

MODEL	MAX OUTPUT POWER	MAX OUTPUT CURRENT	OUTPUT VOLTAGE
HVPS-100-5000	100 W	20 mA	0 – 5000 VDC
HVPS-250-5000	250 W	50 mA	
HVPS-500-5000	500 W	100 mA	
HVPS-1K-5000	1000 W	200 mA	
HVPS-2K-5000	2000 W	400 mA	

CUSTOM OUTPUT CURRENT / POWER AVAILABLE ON REQUEST

TYPICAL APPLICATIONS

- Electrostatic Precipitators
- Electron Beam & Ion Implantation
- X-Ray & NDT Systems
- Particle Accelerators
- Laser Power Supplies
- Semiconductor Equipment
- High Voltage Test Systems
- Research & Laboratories
- Dielectric / Hi-Pot Testing
- Industrial & Process Control
- Electrolysis & Plating
- Medical & Scientific
- Environmental Systems
- HV Capacitor Charging
- Specialty OEM Applications

BAB POWER RELIABLE. PRECISE. POWERING THE FUTURE.

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The HVPS-5K Series is a high-voltage DC power supply platform with adjustable 0–5000 VDC output. The product sheet shows local controls, high-voltage status/fault indication, output enable/disable and interlock, analog/digital remote control, RS-485 and remote communication interfaces.

AVAILABLE MODELS

PARAMETER	SPECIFICATION
HVPS-100-5000	100 W 20 mA max.
HVPS-250-5000	250 W 50 mA max.
HVPS-500-5000	500 W 100 mA max.
HVPS-1K-5000	1000 W 200 mA max.
HVPS-2K-5000	2000 W 400 mA max.

APPLICATIONS

- Electrostatic precipitators
- Electron beam & ion implantation
- X-ray & NDT systems
- Particle accelerators and laser power supplies
- Semiconductor equipment and high-voltage test systems
- Research laboratories, dielectric / Hi-Pot testing and industrial process control
- Electrolysis / plating, medical & scientific systems, HV capacitor charging and specialty OEM applications

MOTOR DRIVE & CONTROL SOLUTIONS

Motor Drive Cabinet (MDC)



A compact, modular solution designed for controlling and protecting AC motors in industrial applications. The cabinet integrates motor drives, protection devices, power distribution, control components and intelligent HMI in a single robust enclosure.

CORE CAPABILITIES

- Modular configurations for diverse motor-control applications
- Integrated AC vector / VFD drives for speed and torque control
- Protection for short circuit, overload, earth fault and phase loss
- 7-inch touch HMI for monitoring, control and diagnostics
- Natural ventilation standard; fan-assisted cooling optional
- Front access for maintenance and industrial-grade component architecture

PARAMETER	SPECIFICATION
Input / output	380–480 VAC, 3 phase / 0–480 VAC, 3 phase
Power range	5.5 kW to 250 kW (customizable)
Control voltage	24 VDC
Protection degree	IP54 standard; IP55 / IP65 optional
Operating temperature	0°C to +45°C
Mounting	Floor mounting

ENGINEERED AROUND YOUR APPLICATION

From compact power modules to integrated industrial cabinets

WHY BAB POWER

- Broad product range covering low-voltage AC/DC, high-current DC, high-voltage DC, high-frequency AC conversion and motor control
- Modular and customizable architectures for OEM and project requirements
- Monitoring, HMI, alarms and communication options across system-level products
- Focus on maintainability, service access, protection and practical industrial integration
- Customer-configurable ratings and options where indicated in individual technical datasheets

TALK TO US

For product selection, customisation, project requirements and technical discussions, contact BAB POWER. Final specifications should be confirmed against the approved model or project configuration before ordering.

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