

HIGH POWER. MODULAR. RELIABLE.

The BAB POWER Modular Power Supply Rack is a high-density DC power system delivering exceptional performance, scalability and redundancy for mission-critical applications.



54 V DC

SYSTEM OUTPUT VOLTAGE

500 A

TOTAL SYSTEM CURRENT

100 A

PER MODULE CURRENT

KEY FEATURES

HIGH OUTPUT

54 V DC output with up to 500 A total system current.

HIGH RELIABILITY

Active current sharing with N+1 redundancy for maximum system uptime.

MODULAR DESIGN

Five hot-swappable 54 V / 100 A power modules for serviceability and expansion.

SMART MONITORING

Front LCD monitoring, local controls, status indication and remote alarms.

APPLICATIONS

- Telecommunications
- Data Centers
- Broadcast & Media
- Industrial Automation
- Test & Measurement
- Battery Charging Systems

DESCRIPTION

The BAB POWER Modular Power Supply Rack is a configurable DC power system designed for high availability and ease of expansion. The system delivers a total output of 54 V DC up to 500 A using five hot-swappable power modules, each rated at 54 V / 100 A. The rack includes dual AC inputs, intelligent control and monitoring, DC output bus, remote sense, and alarm interface.

FEATURES

- 54 V DC output, up to 500 A total system current
- Five (5) hot-swappable power modules, 54 V / 100 A each
- High efficiency, high power density design
- Active current sharing with N+1 redundancy
- Front panel LCD displays for voltage and current
- Local controls: V-SET, I-SET, LOCK
- AC OK, DC OK, ALARM status indicators
- Dual AC input for redundancy (100-240 VAC)
- DC output bus with high current terminals
- Remote sense for accurate load regulation
- Alarm relay contacts (NC / C / NO)
- Built-in cooling with intelligent fan control
- 19-inch rack mountable, 6U height

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
System Output Voltage (Nominal)	54 V DC
System Output Current (Maximum)	500 A
Module Output Current (Maximum)	100 A per module
Number of Modules	5 (PSU-1 to PSU-5)
Output Voltage Adjust Range	As per the customer request
Output Current Adjust Range	As per the customer request
Load Regulation	+/- 0.5%
Line Regulation	+/- 0.5%
Efficiency	>95%
AC Input Voltage	100 - 240 VAC
AC Input Frequency	50 / 60 Hz
AC Inputs	2 (dual redundant)
Power Factor	(TBD) ¹
Inrush Current	< Rated load current
Protections	Input fuse, OVP, OCP, OTP, Fan failure
Operating Temperature	0 °C to +50 °C (TBD) ¹
Storage Temperature	-20 °C to +70 °C (TBD) ¹
Cooling	Forced air, rear to front
Remote Sense	Yes (± sense)
Alarm Interface	Dry contact relay: NC / C / NO
LED Indicators	AC OK (Green), DC OK (Green), ALARM (Red)
Display	LCD: Output Voltage (V), Output Current (A)
Controls	Menu, Up, Down, Enter, V-SET, I-SET, LOCK
Mounting	19-inch Rack Mount
Dimensions (W × H × D)	482.6 × 265 × (TBD) mm (6U)
Weight	(TBD) ¹

Note: Specifications marked (TBD) are to be decided by the customer.

MECHANICAL SPECIFICATIONS

Form Factor	19-inch Rack Mount, 6U
Dimensions (W × H × D)	482.6 × 265 × (TBD) mm
Weight	(TBD) ¹
Enclosure	Steel, black powder coated

ORDERING INFORMATION

Model: BAB-PWR-RACK-54V-500A

Description: Modular Power Supply Rack, 54 V DC, 500 A, 5 × 100 A Modules

PH: +91 9900100632

Email: info@babpower.com

Web: www.babpower.com