

Maxi Access 3G Power Solutions



48V integrated systems of up to 20kW or 40kW

The **Eaton® Maxi Access 3G Power Solutions** range of DC power systems is designed for communication applications requiring compact, efficient, reliable and secure DC power.

System configurations include single cabinets offering up to 20kW, or two cabinets suited together to permit up to 40kW of output power.

The core building block of the system is the APR48-3G rectifier module or, for superior operating efficiency, the APR48-ES "Energy Saver" module.

Each cabinet can accommodate either three or four 48V strings of high capacity VRLA batteries. Integral AC and DC distributions are offered with flexible combinations of load and battery MCBs, and an SC300 system controller as standard.

Low Voltage Disconnect (LVD) is included as standard. The advanced SC300 system

controller offers high-level communications capability for real time information. It also has built-in intelligence for optimizing system efficiency, and comprehensive alarm and system status notifications, which are all designed to minimize operational expenses.

A comprehensive range of other controller features ensures maximum battery life and optimum system performance under a wide range of environmental conditions.

Systems are pre-configured for fast installation and set-up and fully adjustable and transferable for repeatable one-step system set-up.

Typical applications are providing secure power for cellular base transceiver stations, WiMAX nodes, base station controllers, long-distance transmission systems, local office switches and other telecommunication switch installations requiring distributed power.

Typical Application

- Wireless BTS sites (3G/4G/5G)
- Transmission terminals
- Access nodes
- Local and central office switching

Features

- Single systems, or two-cabinet suited options
- Intelligent system management features
- Pre-configured software
- High power density
- Fast on-line expansion of rectifiers (hot-swap)
- High efficiency and unity power factor
- Flexible DC distribution configurations
- Integrated batteries and battery condition monitoring
- Wide AC input voltage range
- Remote monitoring and control
- Full length security door (optional)
- Compatible with Eaton Energy Saver Rectifiers



Powering Business Worldwide

Technical Specifications

Input

AC Supply†	3P+N+PE, 1P+N+PE 50/60Hz (nominal)
Power Factor†	>0.99 (20 – 100% Maximum System Current)
Efficiency†	>96% peak >95% (20% to 100% load, 230Vac)

Output

DC Output Voltage Range	40 – 57.5V
Typical DC Output Power per cabinet†	APR48-3G : 18 kW (375A @ 48V) or APR48-ES : 20kW (416A @ 48V)

Environmental

Operating Temperature Range	-25°C to +50°C Output current is derated above 50°C [122°F]. Refer to rectifier data sheet for more information.
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Mechanical

Dimensions H,W,D*	2187mm [86"], 600mm [23.6"], 600mm [23.6"] or, 2009mm [79"], 600mm [23.6"], 600mm [23.6"]
Weight*	870kg [1914lb]* Typical maximum with 10 rectifier modules and 3 or 4 x 48V/100Ah battery strings.

System

Rectifiers	APR48-3G APR48-ES
System Controller	SC300
Communications Features	USB direct, 10BaseT Ethernet, TCP/IP, SNMP, Modbus-TCP, Modbus-RTU and on board web server, RS232 to external PSTN or GSM modem (modem not included)
Batteries	Typically up to 3 or 4 strings @ 48V, 330-440Ah total capacity*. Other battery configurations available.

In the interests of continual product improvement all specifications are subject to change without notice.

† Power factor, efficiency, AC voltage range and output power is dependant on rectifier module fitted. Refer to the rectifier data sheet for more information.

* Cabinet weights are dependent on system configuration, cabinet height, and how many batteries are fitted.

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Options

AC Distribution	AC isolator per rectifier shelf
DC Distribution	24-way DC load distribution unit comprised of: 24 x 18mm Load MCBs (1-63A) 1 x 27mm Battery MCB per battery string Custom options available on request.
Low Voltage Disconnect (LVD)	Single LVD configured as battery disconnect.
Rectifier Blank Panels	For unused rectifier positions
SiteSure	Input/output modules to monitor and control external equipment (optional)
CellSure	Comprehensive battery monitoring and fault diagnosis system with patented state-of-health algorithms (optional)

Software

PowerManagerII	Remote control and monitoring software
DCTools	Configuration Software. Free download from www.powerware.com/downloads

Certifications

All products comply with International Standards. Contact your local Eaton DC representative for details on the specific product versions available with these safety and EMC approvals:

Europe	CE
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Publication No. PS154057EN
April 2022

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