

3G Access Power Solutions - APS3-400 Series



Features

- Compact and scalable 19" sub-rack solution
- High power density (6kW @ 48V/3U, 19")
- Easy plug-and-go rectifier set-up
- Fast on-line rectifier expansion (hot-plug)
- High efficiency and unity power factor
- Single AC input or individual rectifier feeds
- Intelligent system management features
- Remote access (TCP/IP, web browser, SNMP)
- Pre-configured software for quick & simple deployment
- Onboard energy management software optimizes operating efficiency for lower OPEX
- Compatible with Eaton Energy Saver (ES) Rectifiers

The **Eaton® 3G Access Power Solutions** are ideal for low to medium power telecommunications applications requiring compact, efficient and flexible DC power supplies with or without batteries.

This Eaton 3G Access Power Solution 400 series has UL and FCC standards certifications. A technician friendly user-interface includes a full color menu screen and is preconfigured for fast install and easy commissioning. All system settings are fully adjustable in software and stored in transferable configuration files for repeatable one-step system set-up.

With up to 6kW of power output, it features state-of-the-art 48V 3G or Energy Saver (ES) Access Power Rectifiers for superior operating efficiency (>96%). The DC distribution panel, simple to use hydraulic magnetic circuit breakers, and optional low voltage disconnect (LVD) modules are fully integrated.

The advanced SC200 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.

The 19" rack mount system is ideal for rapid deployment into customer facilities or enclosures.

Typical applications include standby power for customer premises equipment, outdoor power plants, data networks and IP routers.



Technical Specifications

Input

| | | |
|--|---|----------------|
| AC Supply† | Nominal: | 120V, 208-240V |
| | Operating Range: | 90V – 275V* |
| <i>* Output power derates below 175V AC.</i> | | |
| Power Factor† | >0.99 (50 – 100% Output Current) | |
| Efficiency† | APR48-3G : 92% (50 – 100% Output Current) APR48-ES : >96% peak, >95% (20% to 100% load, 230Vac) | |
| Total Harmonic Distortion | <5% THD from 50% to 100% at load. | |

Output

| | |
|----------------------------|---|
| DC Output | 43 – 57.5V |
| Voltage Range | |
| DC Output Power (maximum)† | APR48-3G : 120V AC: 3.3kW @ 48V 208-240V AC: 5.4kW @ 48V |
| | APR48-ES : 120V AC: 3.45kW @ 48V 208-240V AC: 6kW @ 48V |

Environmental

| | |
|---|---|
| Temperature Range* | Rated: -10°C – +50°C [14°F – +122°F] Extended: -40°C – +65°C [-40°F – 149°F] |
| <i>* Output current is derated above 50°C [122°F]</i> | |

Mechanical

| | |
|--|---|
| Dimensions H,W,D | 3U [5.25", 133mm], 19" [483mm] mounting, 14" [356mm]* |
| <i>* Additional clear space is required for exhaust air. Rear access is required for cable terminations.</i> | |

System

| | |
|-------------------------------|--|
| System Controller | SC200 as standard. SC100 optional. |
| DC Distribution Module | |
| Communication Features | 10-way circuit breakers (2 x Battery, 8 x Load). Load circuit breakers: Heinemann AMIR Series 5A, 10A, 20A, 30A, 40A, 50A, 70A, 80A, 100A. Battery circuit breakers: Heinemann AMIR 100A or AMIP 120A. |
| <i>*SC200 only</i> | |
| Low Voltage Disconnect (LVD) | Battery disconnect: 200A internal. |
| Rectifier Blank Panels | For unused rectifier positions. |
| Options | Relay Rack Batteries. |

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

Software

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

Certifications

All products comply with International Standards including UL (US and Canada) and FCC (Class B) Verification.

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

