

Data-Voice-Video Power Solutions with Batteries

48V integrated systems up to 36kW (UL-Listed)



The Eaton Data-Voice-Video Power Solutions range of DC power systems is designed for converged network applications requiring compact, efficient and secure DC power supplies.

These DC power systems use Eaton APR48 rectifier modules and can accommodate up to three 48V strings of high capacity VRLA batteries.

All systems include an integral AC and DC distribution with flexible combinations of MCBs, and an SM65 series supervisory module. Optional extension battery cabinets are also available.

Intelligent system management features include battery temperature charge compensation, fast charge, battery current limit and automatic equalize charging.

Typical applications are providing 48V secure power for POTS or VoIP PABX, customer premises equipment, or wireless base stations.

Eaton Data-Voice-Video Power Solutions are pre-configured for fast installation and set-up. All system settings are fully adjustable in software and stored in transferable configuration files for repeatable one step system set-up.

Typical Applications

- VoIP PABX
- Media gateways
- Enterprise data networks
- Wireless BTS sites (CDMA, GSM/3G/UMTS)

Features

- Intelligent system management features
- Pre-configured software
- High power density
- Fast on-line expansion of rectifiers (hot-swap)
- High efficiency and unity power factor
- Range of DC distribution configurations
- Integrated batteries
- Automatic battery condition testing
- Wide AC input voltage range



Powering Business Worldwide

Technical Specification

Input

AC Supply	208/220/240 VAC, 50/60 Hz (nominal) Via 8 x NEMA L6-30 twist lock plug and cord sets supplied.
Power Factor	>0.99* (20 – 100% maximum system current)
Efficiency	90% (50 - 100% output current)*

Output

DC Output	40 – 58V
Voltage Range	
Typical DC Output Power	36 kW (750A @ 48V) †

Environmental

Operating Temperature Range	-25°C [-13°F] to 40°C [104°F]*
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Mechanical

Dimensions H,W,D	2000mm [78.7"], 600mm [23.6"], 600mm [23.6"]
Weight	System (DV2-A24B-130): 713kg [1572 lb]. Typical maximum with 24 rectifier modules and 3 x 48V/150Ah battery strings. Battery cabinet (DV2-EBC4-130): 849kg [1871 lb]. Typical maximum with 4 x 48V/150Ah battery strings.

System

System Controller	SM65 series
Communications	10 baseT Ethernet port On board web server SNMP agent
Batteries	Up to 3 strings 450Ah total capacity, or 27 strings 4050Ah total capacity with extension battery cabinet.
DC Distribution	Up to 28 MCBs (2 - 63A)

* Refer to rectifier specifications for more information.

† System output power will vary depending on rectifiers and batteries selected.

Options

Rectifier Blank Panels	For unused rectifier positions
Power Xpert DC Tools	Remote control and monitoring software Configuration Software. Free download from www.powerware.com/downloads
SiteSure	Input/output modules to monitor and control external equipment
CellWatch	Comprehensive battery monitoring and fault diagnosis system with patented state-of-health algorithms.

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:

UL
FCC

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

