ELTEK VALERE

J-Series Rear Wire
DC Power Systems

High power and small size

At only 1RU, Eltek Valere's J-series Rear Wire DC Power Systems offers an unprecedented combination of high-power and small size for telecommunications, embedded, datacenter or enterprise applications. The J-series DC power system is an innovative, flexible, full-featured power system with a current output of up to 120 amps. Advanced controller and battery management capabilities are also available.

Applications

Enterprise networking and computing
Eltek Valere's J-series DC Power Systems provide the needed voltage for Blade servers, voice over IP/power over Ethernet and other enterprise data-center equipment with industry-leading reliability and 35% less heat emission.

Business communications services
The deployment site of CPE is always a great unknown. Eltek Valere's J-series DC Power Systems provide the ultimate flexibility for these applications, with current levels that span from 20 to 120 amps.

Remote broadband deployments
With its industry-leading footprint and 4X power density, Eltek Valere's J-series DC Power Systems can go where no other power system will fit.

Compact design
Eltek Valere's Mini DC Power Systems require only 1U (3.5") of rack space, making more room available for revenue-generating equipment.

The Eltek Valere Difference

Reduced installation and maintenance costs
A powerful system controller and elegant product design make the J-series power system simple to understand and install.

Better quality of service
91% efficiency, NEBS Level 3 compliance, and intelligently designed distribution result in reliable, trouble-free networks.

Controller interface options
Eltek Valere's powerful system controller provides full network interconnectivity and alarm interfaces for the most demanding applications. With a wide range of features for local and remote system monitoring, Eltek Valere controllers can lower overall network power management costs by putting the power of information at your fingertips.

Scalable solution
Start with 20 amps and grow to 120 amps in a single system!

See reverse side for specifications

J-Series DC Power Systems

Additional Technical Specifications

- **1RU system**
- **Scalable up to 4500W in a single power shelf**
- **48V output voltage**
- **Features for telecom and enterprise applications**

Rectifier Modules	
J series rectifiers	48V: 10A, 20A, 25A, and 30A

Alarm and Control Interfaces	
User may select from one of the following alarm interfaces depending on system configuration.	
Network Interface Card (NIC2001)	○ Advanced battery monitoring including discharge test, boost voltage, and thermal compensation (with TRIO and T-probe) ○ Configuration of system and alarm values ○ 10/100 Network interface between power system and host ○ Webpage interface ○ SNMP with full MIB support ○ Telnet interface for scripting
Thermal Relay Input/Output Card (TRIO)	○ Can be used with or without NIC ○ Provides 4 Form C alarm relays and 4 temperature probe inputs ○ If used without NIC – 4 available alarms (DC Fail, AC Fail, Fuse Alarm, and Aux Input Alarm) – Temperature probe inputs act as Aux input alarms ○ If used with NIC – 4 available alarms mappable through NIC – Temperature probes or aux inputs

Airflow
Horizontal airflow. All units provide internal, temperature controlled fan cooling

Input Specifications	
J0500A1	10A, 90Vac to 264Vac
J1000A1	20A @ 90Vac to 264Vac
J1500A1	25A @ 90Vac to 180Vac; 30A @ 180Vac to 264 Vac
Power Factor	>.99 typical @ 230VAC, full load

Output Specifications	
Noise	20mV RMS, 10 Hz -20 MHz bandwidth
Regulation	+/- 1% over line, load, and temperature
Efficiency	91% typical at 230 Vac

Temperature Range	
Storage	-40°C to +85°C
Operating	-40°C to +70°C, power derates 2%/°C above 50°C

Mechanical	
Dimensions	M family – Width: 439.6mm (17.31") – Height: 43.0mm (1.69") – Depth: 286.7mm (11.30")
	K family – Width: 439.6mm (17.31") – Height: 43.0mm (1.69") – Depth: 324.1mm (12.76")
	J family – Width: 439.6mm (17.31") – Height: 43.0mm (1.69") – Depth: 324.1mm (12.76")
Mounting options and projection	Flush or Mid-Mount options (see table below for front and rear projections)
Weight	○ Shelf Assembly: 4.54kg (10lbs) ○ Rectifier Module: 2.23kg (4.92lbs)

Protection	
Redundancy	internal "or"-ing protection
ESD	EN61000-4-2, level 4
AC Surge	EN61000-4-4, EN61000-4-5, Level 4

Configuration Options

Shelf Configuration	Shelf Family Code	Shelf Type	Distribution Type	Rectifier Slots	Max. Current	AC Input Options	DC Circuit Options	Controller Options
	M	19", Mid-mount and flush mount (adjustable)	None	4	120 A	Individual (IEC320)	Circuit 1 - two bulk outputs	NIC2001
	K	19", Mid-mount and flush mount (adjustable)	Single slot	3	90 A	Single	Circuit 35 - 1 battery breaker thru optional LVD and 10 GMT outputs	NIC2001 and/or TRIO
	J	19", Mid-mount and flush mount (adjustable)	Double Slot	2	60 A	Single	Circuit 39 - 1 battery breaker thru optional LVD, 1 load breaker, and 14 GMT outputs	NIC2001 and/or TRIO

Agency Certifications	
TELCORDIA	NEBS level 3 compliant
UL	Canada/US 60950
VDE	EN60950
EMI/EMC	CISPR class B conducted and radiated10V/M radiated susceptibility
CE	CE mark meets 73/23/EEC and 93/68/EEC directives