

# J-Series Front Wire DC Power System



## High power, small size, modular system

The J Front wire system is a revolutionary concept in the DC power industry. The entire system is completely modular in its design. All the different modules of the system, including rectifiers, controller, AC input, and DC distribution are separate items. Each module plugs into a chassis making it fully plug and play configurable by the customer. At only 1 RU, the system offers an unprecedented combination of high power and small size. Power levels up to 3000W. Advanced controller and battery back-up management capabilities are also available.

## Applications

### Enterprise networking and computing

Eltek Valere's front access 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 60 amps.

### Remote broadband deployments

With a 12" system depth, its industry-leading footprint and power density up to 35w/in<sup>3</sup>, Eltek Valere's front access J-series DC Power System can go where no other power system will fit and still leave room for other revenue generating equipment.

### More room for revenue equipment

Eltek Valere's J-series front wire DC Power System requires only 1U of rack space, emits 35% less waste heat, and provides up to triple the output power.

## The Eltek Valere Difference

### Reduced installation and maintenance costs

Powerful system controller and elegant product design make this simple to install and understand system.

### Better quality of service

91% efficiency, NEBS Level 3 compliance, and intelligently designed distribution all 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 controller can lower your overall network power management costs by putting the power of information at you fingertips.

### Scalable solution

System grows with load demands. Start with 20 amps and grow to 60A in a single system!

See reverse side for specifications

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## Additional Technical Specifications

- 1RU system
- Scalable up to 3000W 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	
Full Featured Controller (JC2000)	<ul style="list-style-type: none"> <li>○ Local interface with display and controls for alarm notification and configuration</li> <li>○ Advanced battery monitoring including discharge test, boost voltage, and thermal compensation (with TRIO and T-probe)</li> <li>○ Provides 6 Form C output alarm relays and 4 temperature probe inputs which double as auxiliary input alarms</li> <li>○ 10/100 Network interface between power system and host for local or remote webpage interface</li> <li>○ Full configuration of system and alarm values via web interface</li> <li>○ SNMP with full MIB support</li> <li>○ Telnet interface for scripting</li> </ul>

Input Specifications	
J0500A1	10A, 100Vac to 240Vac
J1000A1	20A, 100Vac to 240Vac
J1500A1	25A @ 100Vac to 170Vac; 30A @ 200Vac to 240 Vac
Power Factor	>.99 typical @ 230VAC, full load
THD	Line harmonics meet EN61000-3-2





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	Front wire family (assembled) <ul style="list-style-type: none"> <li>- Width:433.6mm (17.07")</li> <li>- Height:43.2mm (1.70")</li> <li>- Depth:305mm (12.00")</li> </ul>
Weight	<ul style="list-style-type: none"> <li>○ Chassis:0.91kg (2 lbs)</li> <li>○ ACmodule:0.91kg (2 lbs)</li> <li>○ Distribution module:2.26kg (5 lbs)</li> <li>○ Controller module:1.36kg (3 lbs)</li> <li>○ Rectifier Module:2.23kg (4.92 lbs)</li> </ul>

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

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

Configuration Options		
	Part Numbers	Description
	JF19	19" Mid-mount Chassis
	JFS	Single AC Module
	JFD	Dual AC Module
	JFZNN45	Distribution Module with negative output polarity, 8 GMT fuses, and a battery breaker (no LVD)

Agency Certifications	
TELCORDIA	NEBS level 3 compliant
CSA	Canada/US UL60950
VDE	EN60950-1
EMI/EMC	CISPR class B conducted and class A radiated 10V/M radiated susceptibility
CE	CE mark meets 73/23/EEC and 93/68/EEC directives

Specifications are subject to change without notice

JFRONT082407