



V Series Rectifiers and DCV Series

Eltek Valere V Series rectifier and converter modules provide unprecedented power density and power levels in a true plug-and-play format. With a wide range of available voltages, power ratings, and system form factors, Eltek Valere's rectifiers and converters allow optimal system design and cost-effective deployment from initial install to future upgrades.

(Applications)

Cabinet power systems

Because of vertical air flow, high efficiency, and high operating temperature rating, Eltek Valere rectifiers and converters are an ideal choice for wireless, broadband, and fiber-based outdoor and indoor communications cabinets.

Enterprise networking equipment

These rectifiers are a perfect solution to the powering needs of routers, servers, storage networks, modem pools, and other power-hungry networking gear.

Embedded power systems

Give your product a competitive edge. The combination of a space-saving package and high efficiency leaves more room in your equipment for additional features and functions.

Carrier networks

Can't find the space to power your newest communications equipment? Free up space with Eltek Valere rectifiers and converters and avoid costly facilities expansions.

(The Eltek Valere Difference)

Optimization

Eltek Valere rectifiers and converters are optimized for the demanding power and power conversion needs of wireless communications, enterprise and broad-band access equipment.

Small size, big power

At only 2RU, Eltek Valere V Series rectifiers can provide up to 2,500 Watts of power, and Eltek Valere DCV Series converters can provide up to 625 Watts of power. The small size frees up space to reduce system size or incorporate additional electronics.

Industry-leading efficiency

Industry-leading efficiency reduces the thermal load, thus improving overall system reliability and availability.

Flexibility

These rectifiers and converters are designed to operate in Eltek Valere's Compact and Integrated DC Power Systems. They are extremely flexible and can operate either as standalone modules or with a system controller.

V Series Rectifiers and DCV Series Converters

Additional Technical Specifications

- o Compact 2RU height
- o Vertical airflow
- o Wide range of voltages

Input Specifications	
V series rectifiers	<ul style="list-style-type: none"> o Universal AC: 90 to 264 Vac (up to 1250 watt) o High AC Only: 180 to 264 Vac (1500 watt and above) o Power Factor: >.98 for loads above 60% full load o THD: Line Harmonics meet EN61000-3-2 o AC Surge: Up to 300 Vac for temporary transients
DCV series converters	<ul style="list-style-type: none"> o 130V DC: 100 to 380 Vdc

Output Specifications	
Noise	20mV RMS, 10 kHz -20 MHz bandwidth
Regulation	+/- 1% over line, load, and temperature
Efficiency	<ul style="list-style-type: none"> o V Series: 92% for 48V units, 90% for 12V/24V units o DCV Series: min. 86%

Auxiliary Bias

Standard Alarm And Control Interfaces	
Opto-isolated alarms	<ul style="list-style-type: none"> o V Series Rectifiers: AC fail, DC fail, and thermal alarm o DCV Series Converters: input fail, output fail, and thermal alarm
Opto-isolated output disable command	
I2C addressable serial interface	
Analog voltage margin of main output voltage	

Temperature Range	
<ul style="list-style-type: none"> o -40°C to +85°C storage o See table below for operating range 	

Mechanical	
Dimensions	<ul style="list-style-type: none"> o V Series: 86.4mm (3.4")w , 81.3mm (3.2")h, 266.7mm (10.5")d Distribution Panel Height: 177.8mm (7") (4RU) o DCV Series: 86.4mm (3.4")w , 81.3mm (3.2")h, 266.7mm (10.5")d
Weight	<ul style="list-style-type: none"> o V Series: 3.2kg (7lbs) o DCV Series: 3.2kg (7lbs)

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

Configuration Options						
V Series Rectifiers		Nominal DC Output Voltage	Rated DC Output Current	AC Input Voltage Range	Airflow	Operating Temperature
	V250A1	48V	5A	Universal	Vertical	-40 to +75°C
	V500A1	48V	10A	Universal	Vertical	-40 to +75°C
	V750A1	48V	15A	Universal	Vertical	-40 to +75°C
	V1000A1	48V	20A	Universal	Vertical	-40 to +75°C
	V1250A1	48V	25A	Universal	Vertical	-40 to +75°C
	V1500A1	48V	30A	High Line	Vertical	-40 to +75°C
	V2000A1	48V	40A	High Line	Vertical	-40 to +75°C
	V2500A1	48V	50A	High Line	Vertical	-40 to +65°C
	V500B1	24V	20A	Universal	Vertical	-40 to +75°C
	V1000B1	24V	40A	Universal	Vertical	-40 to +75°C
	V1500B1	24V	60A	High Line	Vertical	-40 to +75°C
	V500C1	12V	40A	Universal	Vertical	-40 to +75°C
	V750C1	12V	60A	Universal	Vertical	-40 to +75°C
DCV Series Converters		Output Voltage	Output Current (Max)	Input Voltage	Input Current (Max)	Operating Temperature
	DCV0250EA	48V	5A	130V	3.7A	-40 to +75°C
	DCV0500EA	48V	10A	130V	7.3A	-40 to +75°C
	DCV1000EA	48V	20A	130V	14.5A	-40 to +75°C

Agency Certifications	
TELCORDIA	NEBS Level 3 compliant
UL / VDE	
EMI/EMC	CISPR class B conducted and radiated
CE	CE mark meets 73/23/EEC and 93/68/EEC directives

Specifications are subject to change without notice

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