Integrated
DC Power System

Eltek's Integrated DC Power System provides an industry-leading DC power system optimized for the demanding power needs of wireless communications and broadband access equipment. With up to two power shelves and two distribution panels, the Integrated DC Power System offers expanded options for power and distribution in a compact

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(DC Power Supply Systems – 200/250/400/500A)

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APPLICATIONS

BASE TRANSCEIVER STATIONS

Ample current and distribution capacity to fully power up many 2G, 2.5G, 3G, GSM, GPRS, and PCS base stations.

METROPOLITAN FIBER RINGS

Plenty of power and distribution makes the Integrated Plant an ideal solution for powering termination points in Metro Fiber Rings. Customer premises and CEV based deployments benefit from space savings and scalability.

EXPANSIONS AND UPGRADES

Upgrading legacy power plants to handle Internet services can be a nightmare. The Integrated Plant provides an elegant solution that won't break your budget.

FEATURES

MORE ROOM FOR REVENUE EQUIPMENT

Accommodating up to 48 bullet style breakers in a 23-inch rack space, the Integrated DC Power System fits full-rack features in less than a half-rack of space.

REDUCED INSTALLATION AND MAINTENANCE COSTS

Highly powerful system controller and elegant product design make it easy to understand and simple to install.

MORE PRODUCTIVE WORKFORCE

A powerful remote management interface, through Ethernet or SNMP, can make any workforce more productive.

BETTER QUALITY OF SERVICE

96% efficiency and Advanced Battery Management result in reliable, trouble free networks.

KEY FEATURES

- 48V SOLUTIONS
- FLEXIBLE AC INPUT, DC DIST., AND BATTERY INTERFACES
- ADVANCED DIGITAL CONTROL AND COMMUNICATION

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OUTPUT SPECIFICATIONS

V series rectifiers	48V: 10A, 15A, 20A, 25A, 30A, 40A, 50A
Noise	20mV RMS, 10 Hz -20 MHz bandwidth
Regulation	+/- 1% over line, load, and temperature
Polarity	Universal, may be configured for positive or negative grounding

INPUT SPECIFICATIONS

AC range	Universal Line: 90 to 264 VAC (rectifiers up to 1250W) High Line Only: 180 to 264 VAC (rectifiers > 1250W)
Power factor and THD	>.98 for loads above 60% full load Line Harmonics meet EN61000-3-2

SYSTEM OPTIONS

AC wiring types	Single, dual, or individual AC feeds (specific per system configuration)
AC wiring access	Front & rear access (specific per system configuration)
DC distribution options	Bulk termination, circuit breakers, or fuses; LVD contactor for battery

OPERATIONAL AND ENVIRONMENTAL

Efficiency	96% high efficiency (HE)	
Temperature range	Storage: –40°C to +70°C	Operating temperature depends on rectifier and shelf deployed

CONTROL AND COMMUNICATIONS

BC-series controller	16 Character front panel display Battery float control with temperature compensation Battery boost / equalize control Three external and one internal temperature probes Battery recharge and system current limit Six programmable form-C relays. Up to eight external, programmable alarm inputs
Other options	10/100 LAN with HTTP, SNMP, Telnet

MECHANICAL

Dimensions	Height: Power Shelf: 87.6mm (3.45") (2RU) & Distribution Panel: 177.8mm (7") (4RU) Width: Fits EIA standard 482.6mm (19") or 584.2mm (23") rack. See table below. Depth: 381.0mm (15")		
Weight	Power Shelf: 6.8kg (15lbs) or less	Distribution Panel: 16.3kg (36 lbs)	V-series Rectifier: 3.2kg (7lbs)

OTHER SPECIFICATIONS

Shelf Configuration	Rack width	Max. # of Rectifiers	Nominal voltage	Max current	Distribution options
	482.6mm (19")	4	48V	200	One or two distribution panels; up to 19 load or battery positions/panel
	482.6mm(19")	8	48V	400	One or two distribution panels; up to 19 load or battery positions/panel
	584.2mm(23")	5	48V	250	One or two distribution panels; up to 24 load or battery positions/panel
	584.2mm(23")	10	48V	500	One or two distribution panels; up to 24 load or battery positions/panel

AGENCY CERTIFICATIONS

NEBS	Level 3	EMI/EMC	CISPR Class B conducted and radiated; 10V/M radiated susceptibility
UL/CSA	Canada/US UL60950-1	CE	CE Mark

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