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 design.

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.

The Eltek Difference

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
Up to 96% efficiency and Advanced Battery Management result in reliable, trouble free networks.
### Output Specifications

- **V series rectifiers**
  - 24V: 40A, 60A
  - 48V: 10A, 15A, 20A*, 25A, 30A*, 40A*, 50A
  - *High Efficiency module available
- **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: 100 to 250 Vac (rectifiers up to 1250W)
  - High Line Only: 200 to 250 Vac (rectifiers > 1250W)
- **Power factor and THD**
  - >0.98 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

### Configuration Options

<table>
<thead>
<tr>
<th>Shelf Configuration</th>
<th>Rack Width</th>
<th>Max. # of Rectifiers</th>
<th>Nominal Voltage</th>
<th>Max. Current</th>
<th>Distribution Options</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>482.6mm (19&quot;)</td>
<td>4</td>
<td>24/48V</td>
<td>200</td>
<td>One or two distribution panels; up to 19 load or battery positions/panel</td>
</tr>
<tr>
<td></td>
<td>482.6mm (19&quot;)</td>
<td>8</td>
<td>24/48V</td>
<td>400</td>
<td>One or two distribution panels; up to 19 load or battery positions/panel</td>
</tr>
<tr>
<td></td>
<td>584.2mm (23&quot;)</td>
<td>5</td>
<td>24/48V</td>
<td>250</td>
<td>One or two distribution panels; up to 24 load or battery positions/panel</td>
</tr>
<tr>
<td></td>
<td>584.2mm (23&quot;)</td>
<td>10</td>
<td>48V</td>
<td>500</td>
<td>One or two distribution panels; up to 24 load or battery positions/panel</td>
</tr>
</tbody>
</table>

### Operational and Environmental

- **Efficiency**
  - 48V: 92% typical for standard
  - 48V: 96% for high efficiency (HE)
  - 24V: 90% typical
- **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**
  - Power Shelf Height: 87.6mm (3.45") (2RU)
  - Distribution Panel Height: 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 (36lbs)
  - V-series Rectifier: 3.2kg (7lbs)

### Agency Certifications

- NEBS: Level 3
- UL/CSA Canada/US UL60950-1
- VDE: EN60950-1
- EMI/EMC: CISPR Class B conducted and radiated; 10V/M radiated susceptibility

Specifications are subject to change without notice – refer to ordering guide for specific ordering information and available configurations.