

## ACM1200I DC POWER PLANT

**+24Vdc, 1200 Amp**  
**-48Vdc, 15 Amp**

### DESCRIPTION

The C&D Technologies' ACM1200I is a fully integrated +24 Vdc, 1200 Amp telecom power plant in only 21 rack spaces. Even with its small size, this system is fully equipped and has ample space for customer connections. With all its features and small size the ACM1200I is ideally suited for virtually any Cellular, PCS or +24 Vdc application requiring up to 1200 Amps of +24 Vdc and up to 15 Amps of -48 Vdc power.

### QUICK FEATURE GUIDE

- Up to 1200 Amps of +24 Vdc power
  - Modular "Hot-Plug" +24 Vdc, 150 Amp rectifiers true 4500-watt rating, 6-watts/ cubic inch
- Up to 15 Amps of -48 Vdc Power
  - Modular "Hot-Plug" +24 Vdc to -48 Vdc, 3 Amp converters
- +24 Vdc AM1 type snap-in circuit breaker distribution
- +24 Vdc GMT fuse distribution
- -48 Vdc GMT fuse distribution
- 1200 Amp low voltage disconnect
- 1200 Amp battery circuit breaker disconnect
- Full metering, controls and alarms
- Ample space for customer access and cabling
- All of the above in a fully integrated power plant that only requires 21 rack spaces.
- A 1200 Amp power plant with battery back up all within 7' height using C&D VRLA batteries



ACM1200I

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## RECTIFIER SPECIFICATIONS

| Physical Specifications |                   |
|-------------------------|-------------------|
| HEIGHT                  | 12.25" (31.12cm)  |
| WIDTH                   | 5.00" (12.7cm)    |
| DEPTH                   | 14.50" (36.83cm)  |
| WEIGHT                  | 25 lbs. (11.34kg) |

| Environmental Specifications |  |
|------------------------------|--|
| OPERATING TEMPERATURE        | -40 C to +65C (-40 F to +149 F)          |
| STORAGE TEMPERATURE          | -40 C to +85 C (-40 F to +185 F)         |
| HUMIDITY                     | 0 to 95 % Non-condensing                 |
| ALTITUDE                     | 7,000 ft. (2,133m)                       |
| HEAT DISSIPATION             | 2500 BTU/Hr. Maximum @ 150 Amps @ 30 Vdc |
| COOLING                      | Forced Air – Individual Rectifiers       |
| SEISMIC                      | Zone 4                                   |
| AUDIBLE NOISE                | <62 dBe @ 2 ft. in Front of Plant        |

| Electrical Specifications      |  |
|--------------------------------|--|
| Total Harmonic Distortion      | <5% THD, Meets IEC 555                       |
| EMI                            | FCC Part 15, Subpart J for Class A Equipment |
| LIGHTNING                      | ANSI/IEEE C62.41C Class B3                   |
| ELECTRICAL NOISE: VOICEBAND    | ≤ 32 dbrmc                                   |
| ELECTRICAL NOISE: WIDEBAND     | ≤ 40mV rms: DC to 20 Mhz                     |
| ELECTRICAL NOISE: Peak to Peak | ≤ 350mV Peak to Peak @ 20 Mhz Band Width     |

| Power Specifications |   |
|----------------------|---|
| INPUT VOLTAGE        | 183-264 Vac, Single Phase, 45-65 Hz: Protected for AC surges up to 310 Vac. Rectifiers will automatically restart when input drops below 264 Vac. |
| INPUT CURRENT        | 22.0 Amps @ 240 Vac: @ Full Load, 30 Vdc<br>25.0 Amps @ 208 Vac: @ Full Load, 30 Vdc  |
| OUTPUT VOLTAGE       | Float: 24 to 28 Vdc<br>Equalize: 24 to 30 Vdc   |
| OUTPUT REGULATION    | +/- 0.5% for 0 to 100% of Full Load within the Specified Input Voltage and Frequency Range  |
| OUTPUT CURRENT       | 150 Amps Max  |
| OUTPUT MAX POWER     | 4500 watts: 150 Amps @ 30 Vdc   |
| CURRENT LIMIT        | Adjustable from 0 to 150 Amps Max   |
| LOAD SHARE           | +/- 10% from 10% to 100% of Full Load Rating  |
| POWER FACTOR         | > .98   |
| EFFICIENCY           | >86%  |

| Protection            |                             |
|-----------------------|-----------------------------|
| INPUT PROTECTION      | Two Pole AC Circuit Breaker |
| OUTPUT PROTECTION     | Circuit Breaker             |
| HIGH VOLTAGE SHUTDOWN | Adjustable to 31 Vdc        |
| TURN-ON               | Soft-Start                  |

| Agencies |                 |
|----------|-----------------|
|          | UL/CSA/ISO 9001 |

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**C&D TECHNOLOGIES, INC.**

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