

# CDR-2221-7M1

## 2200W CRPS Power Supply

AC/DC to DC Dual-input Redundant

### FEATURES

- High Efficiency: 96%
- Hot Swappable
- PMBus Support
- Full Digital Power Supply
- Smart Fan Speed Control
- Active Power Factor Correction
- In-system Firmware Upload



■ Dimension : 185 x 73.5 x 40 mm (D x W x H)

### SPECIFICATIONS

#### ► INPUT

|           |                                                                             |
|-----------|-----------------------------------------------------------------------------|
| Voltage   | AC input: 90 - 264Vac<br>DC input: 180 - 240Vdc                             |
| Frequency | 47 - 63Hz                                                                   |
| Current   | AC 100-127V / 12 - 9A<br>AC 200-240V / 10 - 9.8A<br>DC 230-240V / 10 - 9.8A |

#### ► EFFICIENCY, PFC, THD

| Load (%) | Input 115Vac      |              |            | Input 230Vac      |              |            |
|----------|-------------------|--------------|------------|-------------------|--------------|------------|
|          | Input current THD | Power Factor | Efficiency | Input current THD | Power Factor | Efficiency |
| 20%      | 10%               | 0.95         | 92%        | 15%               | 0.96         | 94%        |
| 50%      | 5%                | 0.98         | 94%        | 5%                | 0.98         | 96%        |
| 100%     | 5%                | 0.99         | 90%        | 5%                | 0.99         | 91%        |

#### ► OUTPUT

| Parameter                | 12V (100-127Vac) | 12V (200-240Vac) | 12Vsb    |
|--------------------------|------------------|------------------|----------|
| Rated Continuous         | 83A              | 180.5A           | 3A       |
| CLST Peak 20s PL2        | Rated + 10A      | Rated + 10A      | 4A       |
| Pmax.app Peak 10msec PL3 | Rated + 72A      | Rated + 72A      | N/A      |
| Pmax Peak 100µs PL 4     | Rated + 105A     | Rated + 105A     | N/A      |
| Regulation               | ±5%              | ±5%              | ±5%      |
| Ripple & Noise           | 130mVp-p         | 130mVp-p         | 130mVp-p |

#### ► PROTECTION, RELIABILITY, WARRANTY

Over Current Protection (OCP)  
Over Power Protection (OPP)  
Over Voltage Protection (OVP)  
Over Temperature Protection (OTP)  
Short Circuit Protection (SCP)  
PFC Over Voltage Protection (Bulk OVP)  
Holdup Time: 11ms @ 75% Load  
MTBF: >400,000 Hours @ 30°C  
Warranty: 3 Years

#### ► ENVIRONMENTAL

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Temperature       | Operating: 0 to 50°C<br>Non-operating: -40 to 70°C                                        |
| Altitude          | Operating: to 16,500 feet (5,000 meters)<br>Non-operating: to 35,000 feet (10,580 meters) |
| Relative humidity | Operating : 5% to 85% RH, Non-condensing<br>Storage : 5% to 95% RH, Non-condensing        |

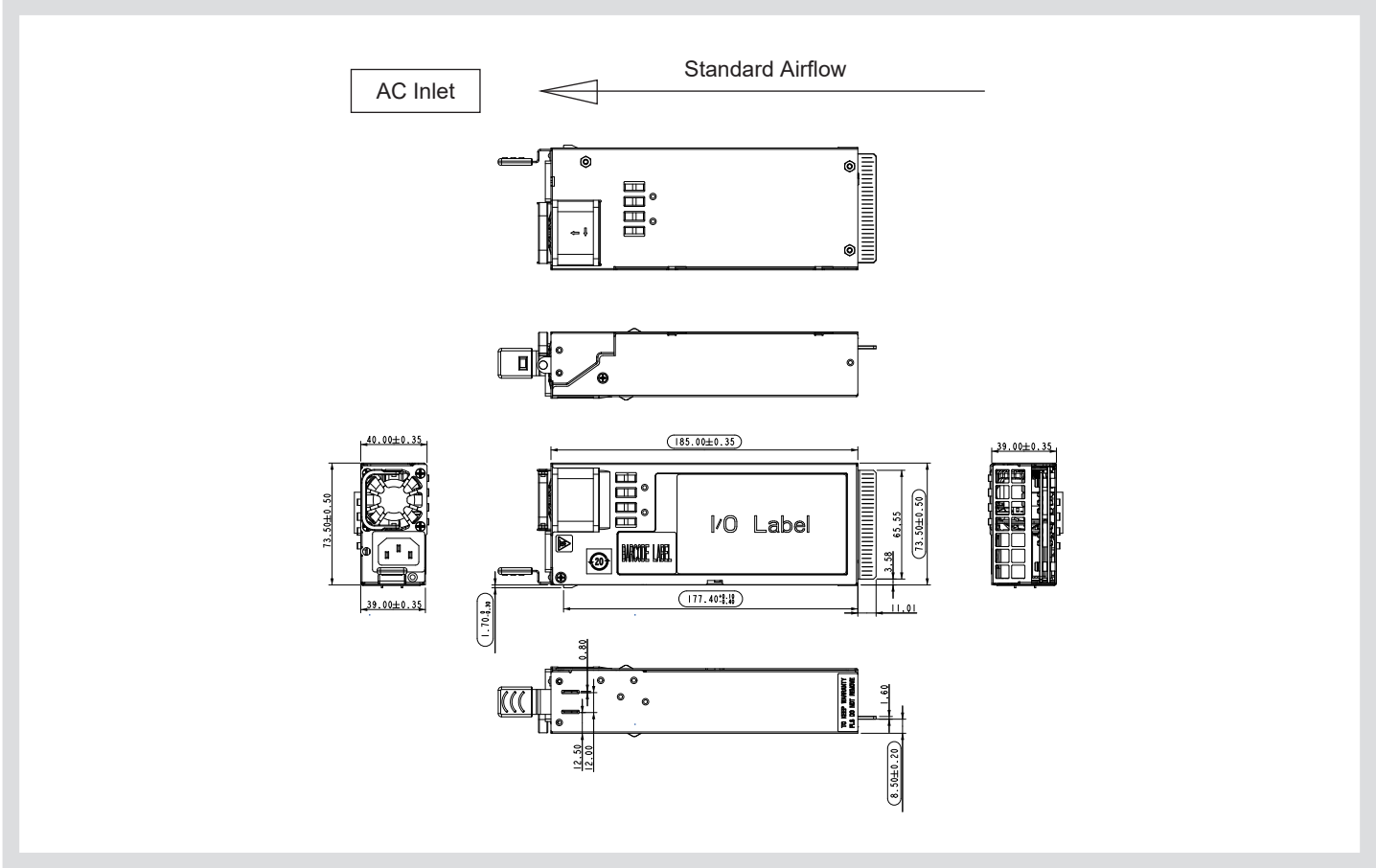
### SAFETY AND COMPLIANCE

UL, cUL, CE, CCC, BSMI, CB, FCC class A, CISPR Class A, RoHS, REACH

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## MECHANICAL DRAWING



### CONNECTORS

| AC Inlet                   | DC Output   | DC Output Mating                                        |
|----------------------------|-------------|---------------------------------------------------------|
| IEC 320 C-14, 10A / 250Vac | Gold Finger | Amphenol GPCE743614114HR, GPCEF4361411HHR or equivalent |

### OUTPUT CONNECTOR PIN ASSIGNMENTS

| Bottom |             |      |             |      |                   | Top  |             |      |                    |      |                             |
|--------|-------------|------|-------------|------|-------------------|------|-------------|------|--------------------|------|-----------------------------|
| PIN#   | Signal Name | PIN# | Signal Name | PIN# | Signal Name       | PIN# | Signal Name | PIN# | Signal Name        | PIN# | Signal Name                 |
| A1     | GND         | A11  | +12V        | A21  | PSON              | B1   | GND         | B11  | +12V               | B21  | 12V Standby                 |
| A2     | GND         | A12  | +12V        | A22  | SMBAlert#         | B2   | GND         | B12  | +12V               | B22  | Cold Redundancy Bus         |
| A3     | GND         | A13  | +12V        | A23  | Return Sense      | B3   | GND         | B13  | +12V               | B23  | 12V load share bus (Vshare) |
| A4     | GND         | A14  | +12V        | A24  | +12V Remote Sense | B4   | GND         | B14  | +12V               |      |                             |
| A5     | GND         | A15  | +12V        |      |                   | B5   | GND         | B15  | +12V               | B24  | Present (connect to ground) |
| A6     | GND         | A16  | +12V        | A25  | PWOK              | B6   | GND         | B16  | +12V               | B25  | Reserved                    |
| A7     | GND         | A17  | +12V        |      |                   | B7   | GND         | B17  | +12V               |      |                             |
| A8     | GND         | A18  | +12V        |      |                   | B8   | GND         | B18  | +12V               |      |                             |
| A9     | GND         | A19  | PMBus SDA   |      |                   | B9   | GND         | B19  | A0 (SMBus address) |      |                             |
| A10    | +12V        | A20  | PMBus SCL   |      |                   | B10  | +12V        | B20  | A1 (SMBus address) |      |                             |

★ Product details and image are for reference and final product is subject to change without notice.



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