

CDR-3022-1M1



3000W Blade Server Power Supply AC/DC Dual-input Redundant

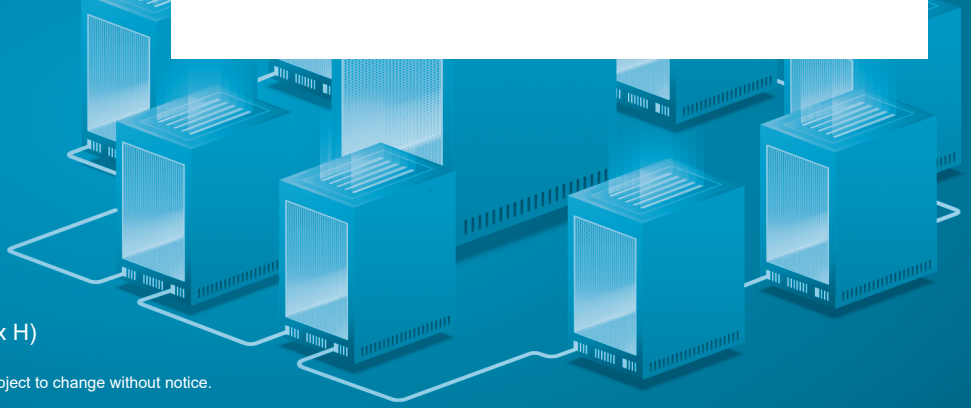
FEATURES

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



■ Dimension : 203.5 x 106.5 x 82.4 mm (D x W x H)

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



SPECIFICATIONS

▶ INPUT

| | |
|-----------|--|
| Voltage | AC input: 180 - 264 Vac DC input: 180 - 300 Vdc |
| Frequency | 47 - 63Hz |
| Current | AC 200-207V / 16-15.7A DC 240V / 15A |

▶ EFFICIENCY

| | |
|----------|-----|
| Load (%) | |
| 10% | 90% |
| 20% | 94% |
| 50% | 96% |
| 100% | 91% |

▶ OUTPUT

| | | | |
|----------------|----------|----------|----------|
| Parameter | 54V | 12V | 12Vsb |
| Max Load | 40.74A | 41.67A | 3A |
| Regulation | ±3% | ±5% | ±5% |
| Ripple & Noise | 500mVp-p | 120mVp-p | 120mVp-p |

▶ PROTECTION, RELIABILITY, WARRANTY

Over Current Protection (OCP)
Over Power Protection (OPP)
Over Voltage Protection (OVP)
Over Temperature Protection (OTP)
Holdup Time: 11.2msec @ 70% Load
MTBF: >500,000 hours @ 30 °C
Warranty: 3 Years

▶ ENVIRONMENTAL

| | |
|-------------------|---|
| Temperature | Operating : to 55°C Non-operating : -40 to 70°C |
| Altitude | Operating: to 16,500 feet (5,000 meters) Non-operating: to 35,000 feet (10,580 meters) |
| Relative Humidity | Operating: 20% to 90% RH, Non-condensing Storage: 5% to 95% RH, Non-condensing |

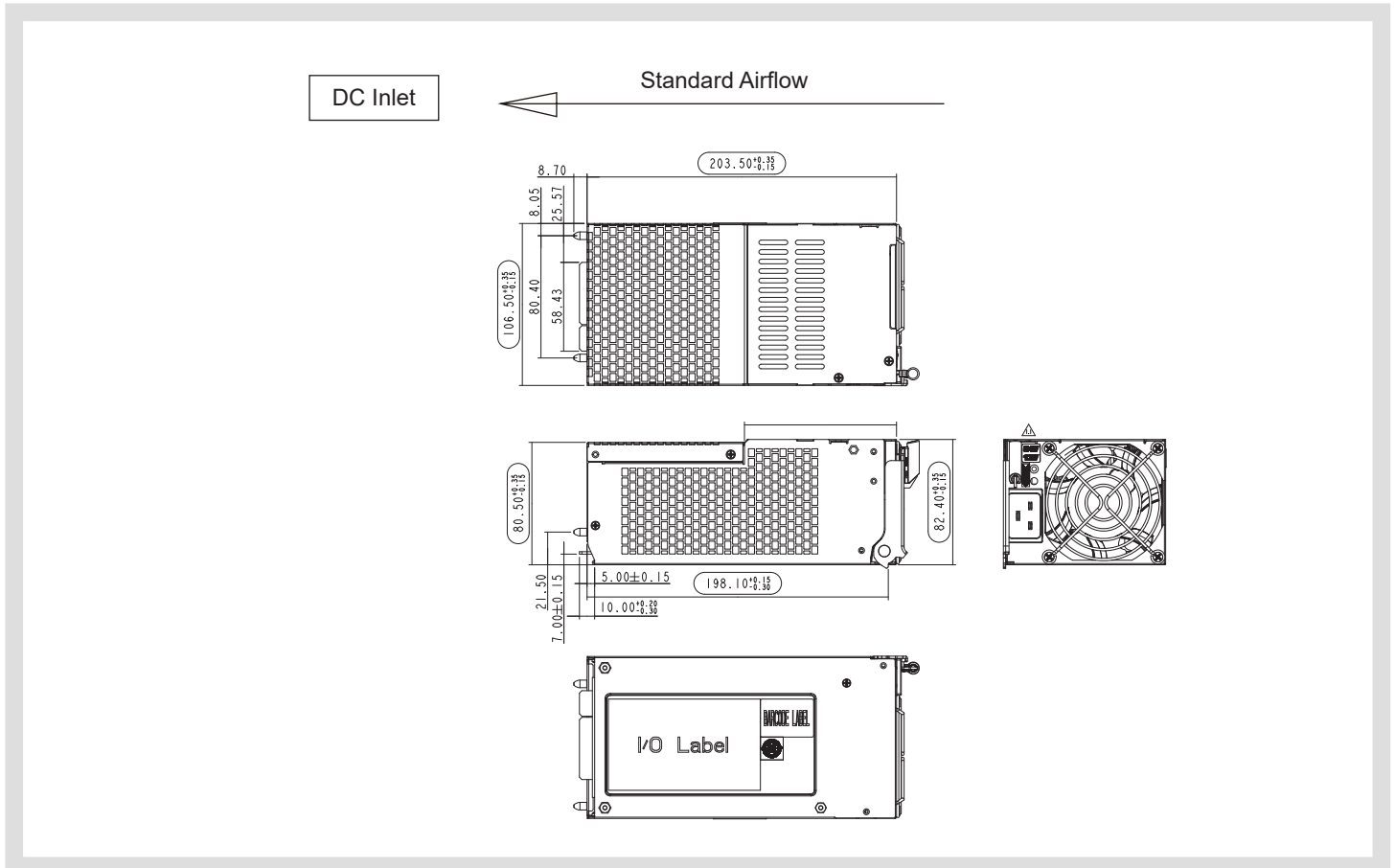
SAFETY AND COMPLIANCE

UL, CE, CQC, TUV/CB, FCC class A, CISPR Class A, BIS, BSMI, RoHS, REACH

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MECHANICAL DRAWING



CONNECTORS

| | |
|------------------|--------------------------|
| AC Inlet | IEC 320 C20 (20A/250Vac) |
| DC Output | Gold Finger |
| DC Output Mating | Amphenol HPCE 32P+22S |

OUTPUT CONNECTOR PIN ASSIGNMENTS

| Power and Signal Connection on PS | | | | | | | | | | On Back Plane (BP) | | | | | | | | | |
|-----------------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|--------------------|---|-------|-------------|-------|---|-------|---|-------|-------------|
| PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name | PIN # | Signal Name |
| S1 | SMBAlert | P1 | +12V | P12 | DC Return | S16 | A0 | P23 | DC Return | S1 | SMBAlert (pull-up 3.3V) | P1 | +12V | P12 | DC Return | S16 | A0 | P23 | DC Return |
| S2 | I2C SDA2 | P2 | +12V | P13 | DC Return | S15 | Reserved | P24 | DC Return | S2 | NC | P2 | +12V | P13 | DC Return | S15 | Reserved | P24 | DC Return |
| S3 | DC GOOD | P3 | +12V | P14 | DC Return | S14 | +12V-Ishare | P25 | +54V | S3 | DC GOOD (pull-up 3.3V) | P3 | +12V | P14 | DC Return | S14 | +12V_sharing bus and connect this pin between PSU | P25 | +54V |
| S4 | M1_Active 1 | P4 | +12V | P15 | DC Return | S13 | Present_L | P26 | +54V | S4 | M1 (pull-up 3.3V) | P4 | +12V | P15 | DC Return | S13 | Present_L (pull-up at midplane) | P26 | +54V |
| S5 | I2C SCL1 | P5 | +54V | P16 | DC Return | S12 | 54V RS | P27 | +54V | S5 | I2C SCL1 | P5 | +54V | P16 | DC Return | S12 | +54V remote sense | P27 | +54V |
| S6 | A2 | P6 | +54V | S22 | 54V Ishare | P17 | DC Return | P28 | +54V | S6 | A2 (connect to GND directly) | P6 | +54V | S22 | +54V I share and connect this pin between PSU | P17 | DC Return | P28 | +12V |
| S7 | Battery ID | P7 | +54V | S21 | I2C SCL2 | P18 | DC Return | P29 | +54V | S7 | NC | P7 | +54V | S21 | NC | P18 | DC Return | P29 | +12V |
| S8 | Wakeup_bus | P8 | DC Return | S20 | PSON | P19 | DC Return | P30 | +54V | S8 | Connect this pin together between the PSU on midplane | P8 | +54V | S20 | PSON | P19 | DC Return | P30 | +12V |
| S9 | +12V-RS | P9 | DC Return | S19 | M2_Active2 | P20 | DC Return | P31 | +54V | S9 | +12Vremote sense | P9 | DC Return | S19 | M2 (connect to GND directly) | P20 | DC Return | P31 | +12V |
| S10 | 12Vsb | P10 | DC Return | S18 | I2C SDA1 | P21 | DC Return | P32 | +54V | S10 | 12Vsb | P10 | DC Return | S18 | I2C SDA1 | P21 | DC Return | P32 | +12V |
| S11 | 12Vsb | P11 | DC Return | S17 | A1 | P22 | DC Return | | | S11 | 12Vsb | P11 | DC Return | S17 | A1 | P22 | DC Return | | |



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