

CDR-3022-5M1

3000W Blade Server Power Supply

AC/DC to 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 : 245.3 x 106.5 x 82.1 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

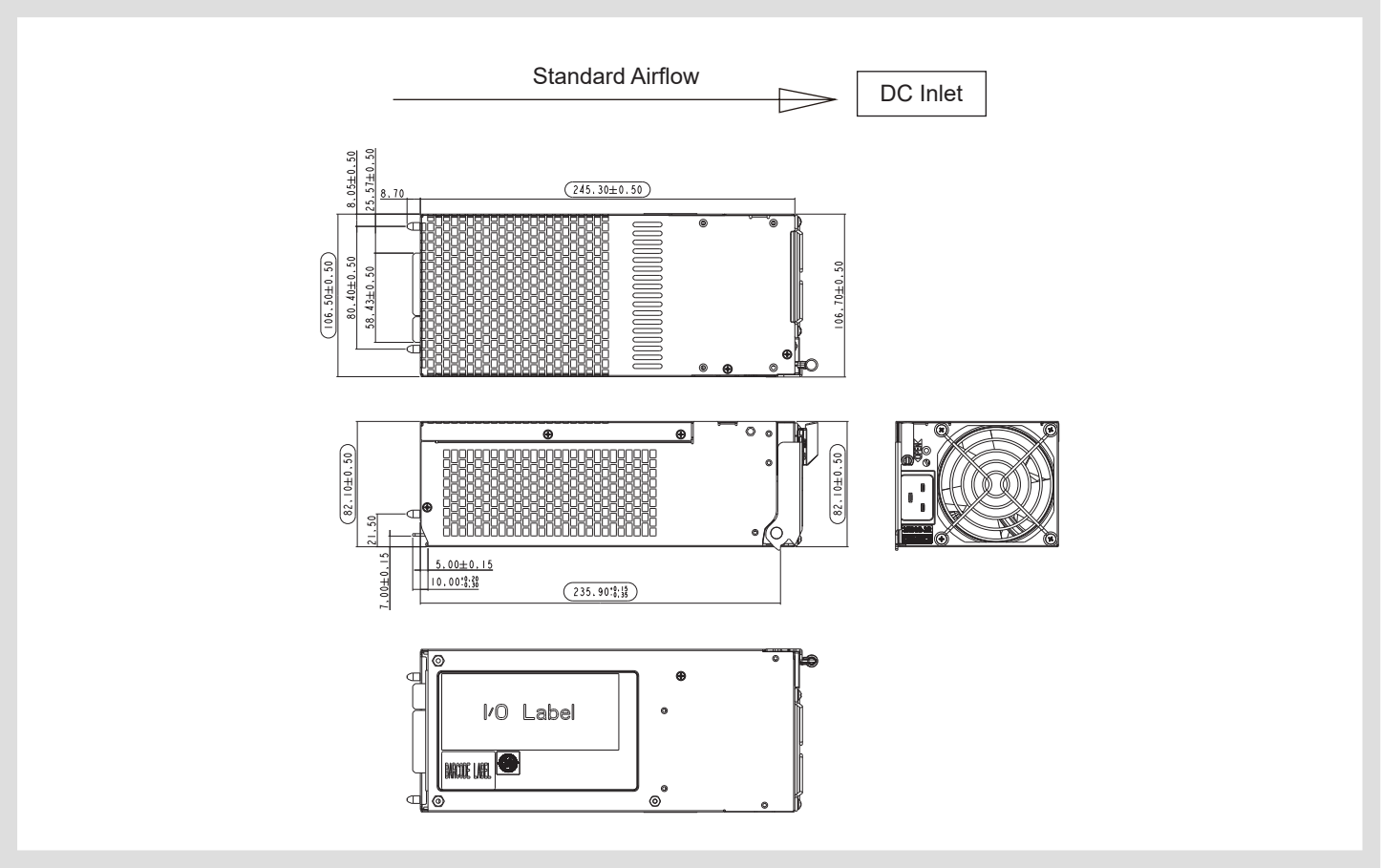
SAFETY AND COMPLIANCE

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 Present_L (pull-up at midplane)	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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