

CDR-3021-5M1

3000W CRPS Power Supply AC/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 : 265 x 73.5 x 40 mm (D x W x H)

SPECIFICATIONS

▶ INPUT

Voltage	AC input: 180 - 264Vac DC input: 180 - 300Vdc
Frequency	47 - 63Hz
Current	AC 200 - 240V / 16-14A DC 240V / 14A

▶ EFFICIENCY, PFC, THD

Load (%)	Input 230Vac		
	Input current THD	Power Factor	Efficiency
10%	20%	0.9	90%
20%	15%	0.96	94%
50%	5%	0.98	96%
100%	5%	0.99	91%

▶ OUTPUT

Parameter	12V	12Vsb
Rated Continuous	250A	3.5A
CLST Peak 20s PL2	Rated + 24A	4A
Pmax.app Peak 10msec PL3	Rated + 100A	N/A
Pmax Peak 100µs PL 4	Rated + 120A	N/A
Regulation	±5%	±5%
Ripple & Noise	150mVp-p	150mVp-p

▶ PROTECTION, RELIABILITY, WARRANTY

Over Current Protection (OCP)
Over Power Protection (OPP)
Over Voltage Protection (OVP)
Over Temperature Protection (OTP)
Short Circuit Protection (SCP)
Holdup Time: 11.2ms @ 70% Load
MTBF: >400,000 hours @ 30 °C
Warranty: 3 Years

▶ ENVIRONMENTAL

Temperature	Operating : 0 to 45°C Non-operating : -40 to 70°C
Altitude	Operating : to 16,500 feet (5,000 meters) Non-operating : to 49,000 feet (15,200 meters)
Relative humidity	Operating : to 85% RH, Non-condensing Storage : to 95% RH, Non-condensing

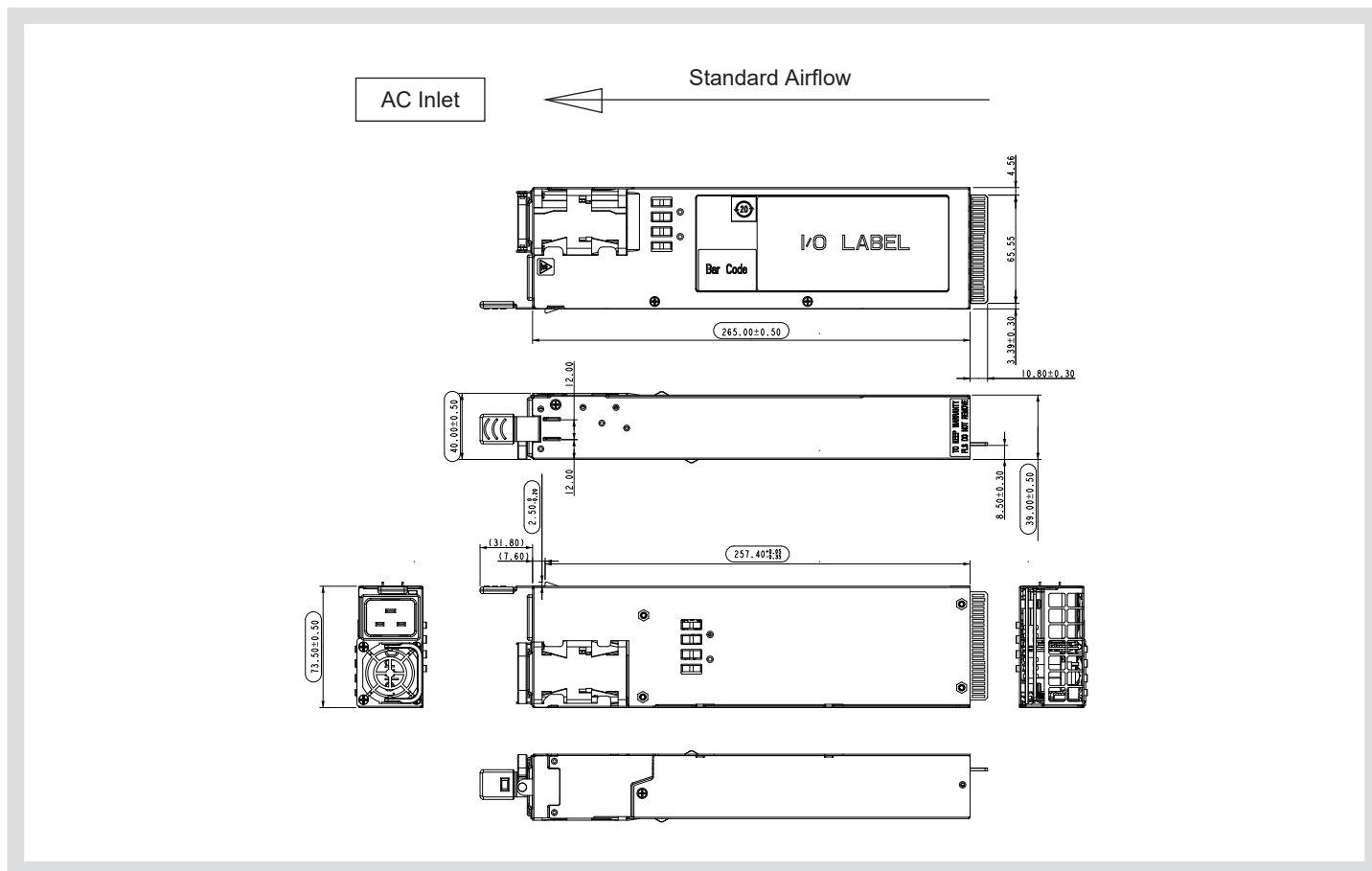
SAFETY AND COMPLIANCE

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

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MECHANICAL DRAWING



CONNECTORS

AC Inlet	DC Output	DC Output Mating
IEC 320 C-20, 16A / 250Vac	Gold Finger	Amphenol HPG12P14SRT153T / FCI 10035388-102LF or equivalent parts

OUTPUT CONNECTOR PIN ASSIGNMENTS

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	A2 (SMBus address)
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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