

CPR-1621-8M1

1600W MCRPS Power Supply AC/DC to DC Dual-input Redundant

FEATURES

- High Efficiency: 96%
- SPDM communication security
- PMBus, SMBus, I2C functions
- Fully digital power supply
- Smart Fan Speed Control
- Hot Swappable
- In-system Firmware Upload
- Illuminated handle indicates power status



■ Dimension : 185 x 73.5 x 40 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: 90 - 264Vac DC Input: 192 - 310Vdc
Frequency	47 - 63Hz

► PFC

Load (%)	Output Power
10%	92%
20%	96%
50%	98%
100%	99%

* These requirements are within the Energy Star® Program Requirements for Computer Servers.

► OUTPUT

Parameter	12V	12Vsb
Max Load	133.3A@ 200-240Vac / 92-310Vdc	4.0A
Regulation	12.06V ~ 12.34V	11.65V ~ 12.35V
Ripple & Noise	120mVp-p	120mVp-p

► PROTECTION, RELIABILITY, WARRANTY

Over Current Protection (OCP)
Over Power Protection (OPP)
Over Voltage Protection (OVP)
Under Voltage Protection (UVP)
PFC Over Voltage Protection (Bulk OVP)
Over Temperature Protection (OTP)
Holdup Time: 11msec @ 100% Load
MTBF: >400,000 hours @ 100% Load, 30°C Ambient
Warranty: 3 Years

► ENVIRONMENTAL

Temperature	Operating : -5°C to 55°C Non-operating : -40 to 70°C / Ambient
Altitude	Operating: to 16,400 feet (5,000 meters) Non-operating: to 49,800 feet (15,200 meters)
Relative Humidity	Operating: to 85% RH, Non-condensing Storage: to 95% RH, Non-condensing

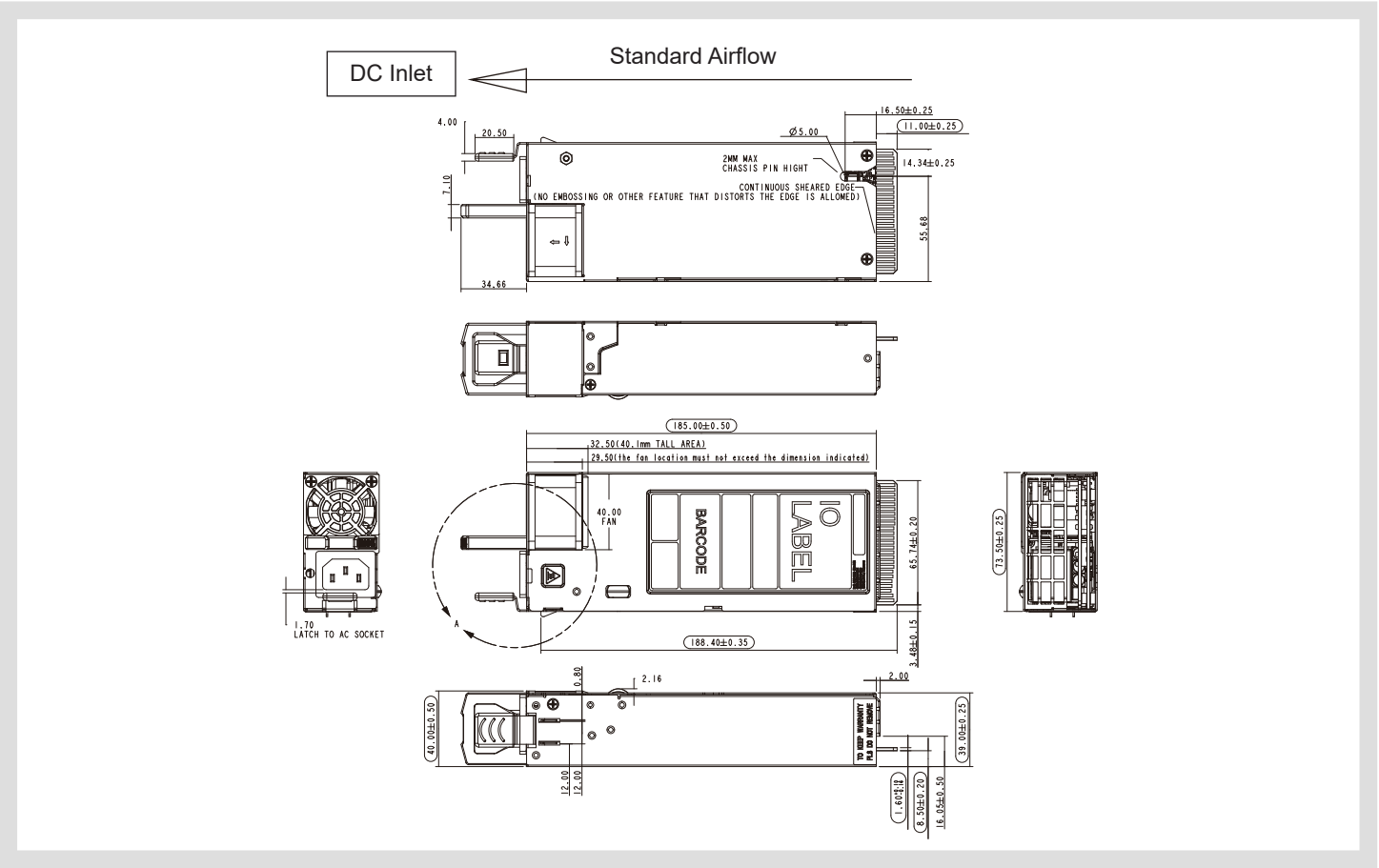
SAFETY AND COMPLIANCE

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

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MECHANICAL DRAWING



CONNECTORS

AC Inlet	IEC 320 C-14 (15A / 250Vac)
DC Output	73.5mm output receptacle. Refer to MCRPS Connector Information for options.
DC Output Mating	Refer to MCRPS Connector Information for options.

OUTPUT CONNECTOR PIN ASSIGNMENTS

Top Side						Bottom Side					
High power conn	Regular conn	Signal Name	High power conn	Regular conn	Signal Name	High power conn	Regular conn	Signal Name	High power conn	Regular conn	Signal Name
P1	A1	GND	P5	A13	+12V	P7	B1	GND	P11	B13	+12V
	A2	GND		A14	+12V		B2	GND		B14	+12V
	A3	GND		A15	+12V		B3	GND		B15	+12V
P2	A4	GND	P6	A16	+12V	P8	B4	GND	P12	B16	+12V
	A5	GND		A17	+12V		B5	GND		B17	+12V
	A6	GND		A18	+12V		B6	GND		B18	+12V
P3	A7	GND	S1	A19	PMBus SDA	P9	B7	GND	S8	B19	A0 (SMBus address)
	A8	GND	S2	A20	PMBus SCL		B8	GND	S9	B20	A1 (SMBus address)
	A9	GND	S3	A21	PSON#		B9	GND	S10	B21	+12Vstby
P4	A10	+12V	S4	A22	SMBAler#	P10	B10	+12V	S11	B22	Cold Redundancy Bus
	A11	+12V	S5	A23	Return sense / PS_Kill		B11	+12V	S12	B23	12V load share bus
	A12	+12V	S6	A24	+12V Remote sense		B12	+12V	S13	B24	Imon
			S7	A25	PWOK				S14	B25	VINOK



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