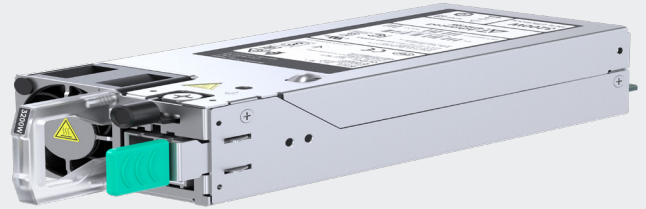


CSU3200ADC-3-3M0 M-CRPS POWER SUPPLY

12V 3200W Distributed Power System



Advanced Energy's CSU front end series is designed to provide a flexible power conversion solution for compute, storage, and networking equipment in the modular hardware common redundant power supply (M-CRPS). The 3200 W model is in the standard 1U x 73.5 mm x 185 mm form factor, and accepts -48VDC input. The CSU power supply series can cover-sensitive entry level systems, or power hungry applications where there are space constraints.

AT A GLANCE

Front-end Bulk Power

Total Output Power

3200 W

Input Voltage

-48 VDC



SPECIAL FEATURES

- Ultra-high density
- 1U power supply
- Inrush current control
- N+N, N+1 redundant
- Hot-pluggable
- Active current sharing
- PMBus® compliant
- Closed loop throttle
- Cold redundancy
- Two-year warranty

SAFETY

- CB Test Certificate
- CE Mark
- UKCA Mark
- BIS
- KC
- EAC
- NRTL
- BSMI
- IEC 60950-1 / 62368-1

TARGET APPLICATIONS

- DCC

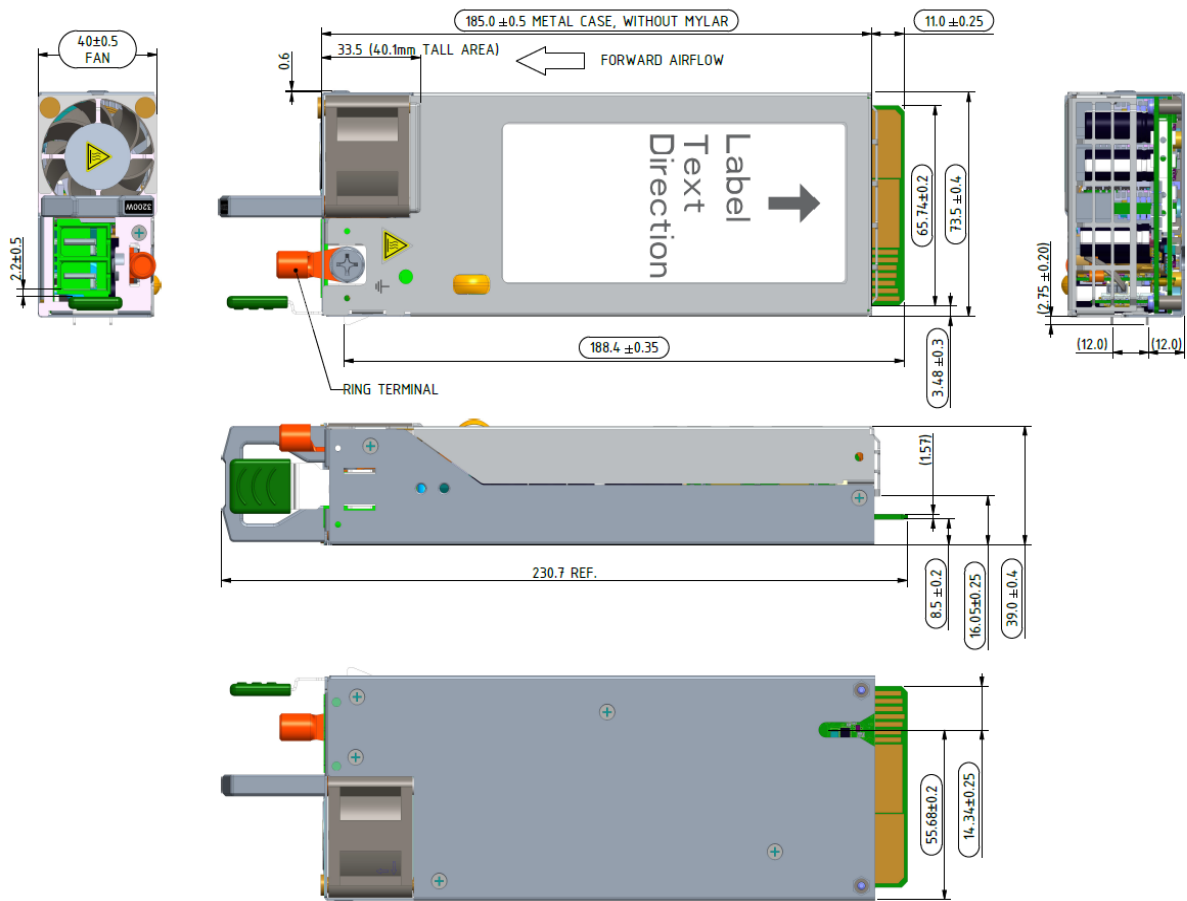
ELECTRICAL SPECIFICATIONS

Input						
Input range and output power	-40 to -72 VDC			3200 W		
Efficiency	94.0% peak					
Inrush current	50 Apk, cold start					
Conducted EMI	Class A					
Radiated EMI	Class A					
Hold-up time	≥2 ms					
Output						
	Main DC Output			Standby DC Output		
	MIN	NOM	MAX	MIN	NOM	MAX
Nominal setting	12.16 V	12.2 V	12.24 V	12.035 V	12.075 V	12.115 V
Total output regulation range	12.06 V	-	12.34 V	11.65 V	-	12.35 V
Dynamic load regulation range	12.06 V	-	12.34 V	11.65 V	-	12.35 V
Output ripple	-	-	1%	-	-	1%
Output current	0 A	-	269.29 A	0 A	-	3.0 A
Current sharing	Within ±4% of full load rating, starting at 20% of PSU rated load			N/A		
Capacitive loading	3,300 μF	-	70,000 μF	270 μF	-	4,700 μF
Output rise time	10 ms	-	70 ms	10 ms	-	70 ms

ORDERING INFORMATION

Model Number	Description	Outputs		Airflow Direction
CSU3200ADC-3-3M0	1U x 73.5 mm x 265 mm 3200 W	12.2 V	269.29 A	Forward

MECHANICAL OUTLINE



ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-5 to 55°C of inlet temperature for full rated power Allowable up to 70°C for short term operation
Operating altitude	Up to 3,050 meters
Operating relative humidity	To 85%, non-condensing
Non-operating temperature	-40 to +70°C
Shipping and storage relative humidity	To 95%, non-condensing
Non-operating altitude	Up to 15,200 meters
Vibration and shock	Standard operating/non-operating random shock and vibration
RoHS compliance	Yes
MTBF	400 khours Telcordia SR-332, Method 1 case 3, 40°C
Operating life	Minimum of 5 years under 55°C inlet temperature, 100% of the time at 80% load, 48 VDC input, and sea level

CONNECTOR DEFINITION

Reference	On Power Supply	Mating Connector or Equivalent
AC Input Connector	APOWA049-P001C02C	APOWA048-K001C02C
Output Connector	185 mm by 73.5 mm card edge	HPG36P14SRT051T-xx or equivalent

Output Connector Pin Configuration			
A1-A9 (P1 - P3)	POWER GND	B1-B9 (P7 - P9)	POWER GND
A10-18 (P4 - P6)	+12V	B10-B18 (P10 - P12)	+12V
S1	SDA	S8	A0 (addressing)
S2	SCL	S9	A1 (addressing)
S3	PSON#	S10	12VSB
S4	SMBAlert#	S11	Cold Redundancy Bus
S5	-V _{SENSE} / PS_KILL	S12	12V Load Share Bus
S6	+V _{SENSE}	S13	I _{mon}
S7	PWOK	S14	VINOK

ADDRESSING

PSU		
A1	A0	Address
0	0	B0h
0	1	B2h
1	0	B4h
1	1	B6h

FRU		
A1	A0	Address
0	0	A0h
0	1	A2h
1	0	A4h
1	1	A6h



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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE | TRUST

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