

ARTESYN 48V, 3kW, OPEN RACK RECTIFIER WITH ATS

For 18kW & 30kW 2RU, 19" or 21" Power Shelves



Advanced Energy's Artesyn 48V, 3kW Open Rack Rectifier is a highline single phase AC-DC power supply that converts 200Vac~277Vac single-phase line into a 48VDC/62A (3kW) main output. Output DC Voltage range is narrow to eliminate oversize design and enable 4:1 ratio for downstream 12V POL loads. Each PSU contains an Automatic Transfer Switch (ATS) for failover between dual AC inputs.

This PSU can be leveraged in Advanced Energy's 30kW Power Shelf which houses 12 3000W PSUs or in Advanced Energy's 18kW Power Shelf which houses 6 3000W PSUs.

KEY FEATURES

- Greater than 96% efficiency from 240-277V AC Input with 30-100% load (peak efficiency of 97%)
- Automatic Transfer Switch (ATS) built in
- 68mm wide
- I²C
- > 24 msec hold up
- 200Vac to 277Vac input
- Active current sharing
- OCP compliant
- Hot pluggable PSUs
- Status LEDs for fault monitoring
- 30kW total, 27kW N +1, or 18kW N + N

COMPLIANCE

- EN61000-4-5 Level 3 for AC Mains Surge
- EN55035

SAFETY

- IEC 62368-1
- UL62368-1
- EN62368-1

AT A GLANCE

Total Output Power:

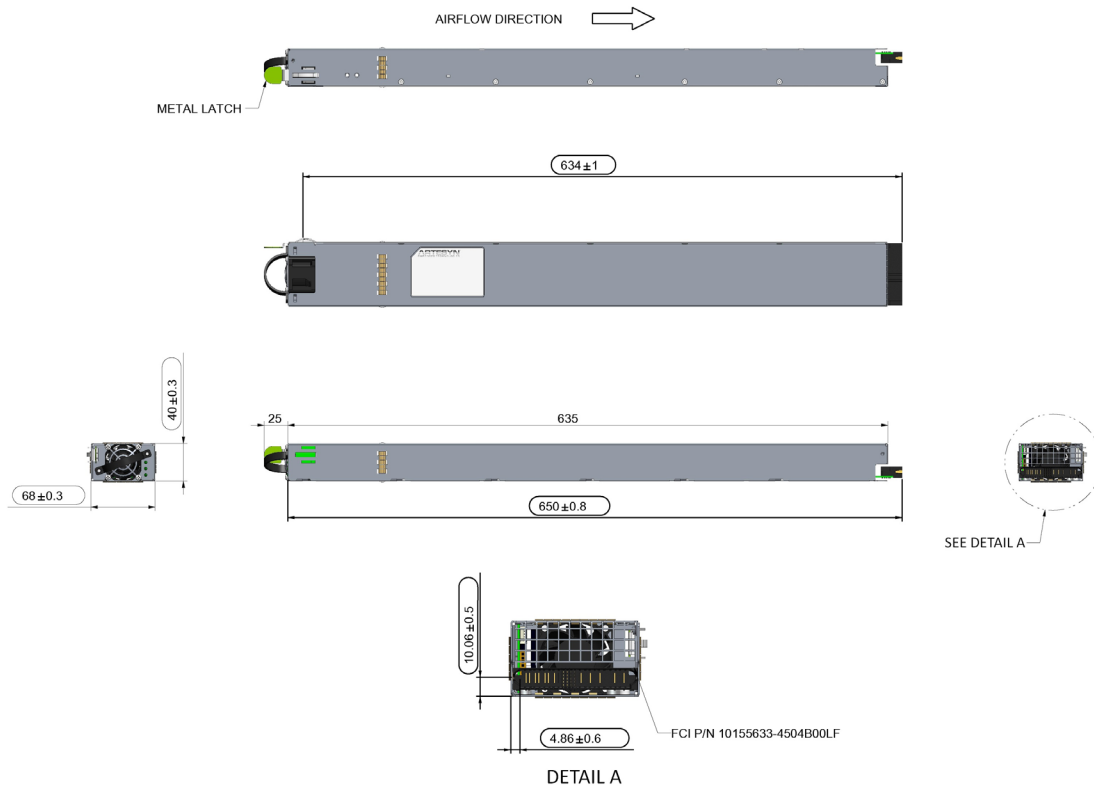
3kW

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ELECTRICAL SPECIFICATIONS

INPUT			
	MIN	NOM	MAX
Voltage VAC	180	200/277	305
Hold up (@100% Load 200-277 VAC) msec		25	
iTHD (Load >30%) %			5
Power Factor 10% and above	95		
OUTPUT			
	MIN	NOM	MAX
Set Point VDC (20% Load)	49.65V	49.7V	49.75V
Droop (0~100% load)		-1.5V	
Current A	0		62
Ripple & Noise (@ 20MHz BW) mVpp			500
Output excursion (from nominal voltage) during transient loading V *Max Current Step: 10% to 60%, 50% to 100% *Dynamic Load @50Hz to 10kHz *Slew Rate: 1A/uSEC	-1		+1




POWER SUPPLY MECHANICAL OUTLINE



MATING CONNECTOR INFORMATION

DEVICE	CONNECTOR	MATING CONNECTOR	REMARKS
PSU	FCI 10155633-4504B00LF	FCI 10155635-4504B00LF	I/O Connector
Shelf	POSITRONIC: SP10RSSH48RM220A1-AA-2269 SP10RSSH48M220A1-AA-2269	POSITRONIC SP10RSSH1FOW01/AA-2268	INPUT CONNECTOR

ORDERING INFORMATION

Model	Input	Output	Type
700-015234-0000	1 Phase AC, 180-305V, 50-60 Hz	50V  60A	ACDC-ORV3-3000W
700-015214-0000	3 Phase AC, 200/480V, 50-60 Hz	50V  300A	ACDC-ORV3-1U-18kW
700-015219-0000	3 Phase AC, 200/480V, 50-60 Hz	50V  660A	ACDC-ORV3-2U-30kW



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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

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