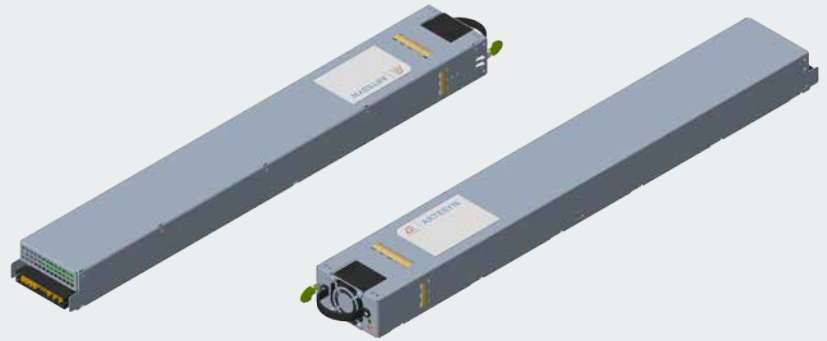


# ARTESYN 50V, 3KW, OPEN RACK RECTIFIER

For 18kW & 36kW Open Rack V3  
Power Shelves



Artesyn Embedded Power introduces a 18kW Power Shelf and 36kW Power Shelf which houses 6x3000W PSUs. The PSU is a highline single phase AC-DC power supply that converts 200Vac~277Vac single-phase line into a 50V/60A (3kW) main output. Output DC Voltage range is narrow to eliminate oversize design and enable 4:1 ratio and downstream 12V POL loads.

## DATA SHEET

### Total Output Power:

3kW

### KEY FEATURES

- Greater than 96.5% efficiency from 240-277V AC Input with 30-100% load (peak efficiency of 97.5%)
- 200Vac to 277Vac input
- Active current sharing
- OCP compliant
- Hot pluggable PSUs
- Status LEDs for fault monitoring
- 48V fixed on battery test operation

### COMPLIANCE

- ICE EN 61000-4-2 Cat-A for surges
- EN 61000-3-2 Class-A for harmonics
- CISPR and FCC Part A for EMC

### SAFETY

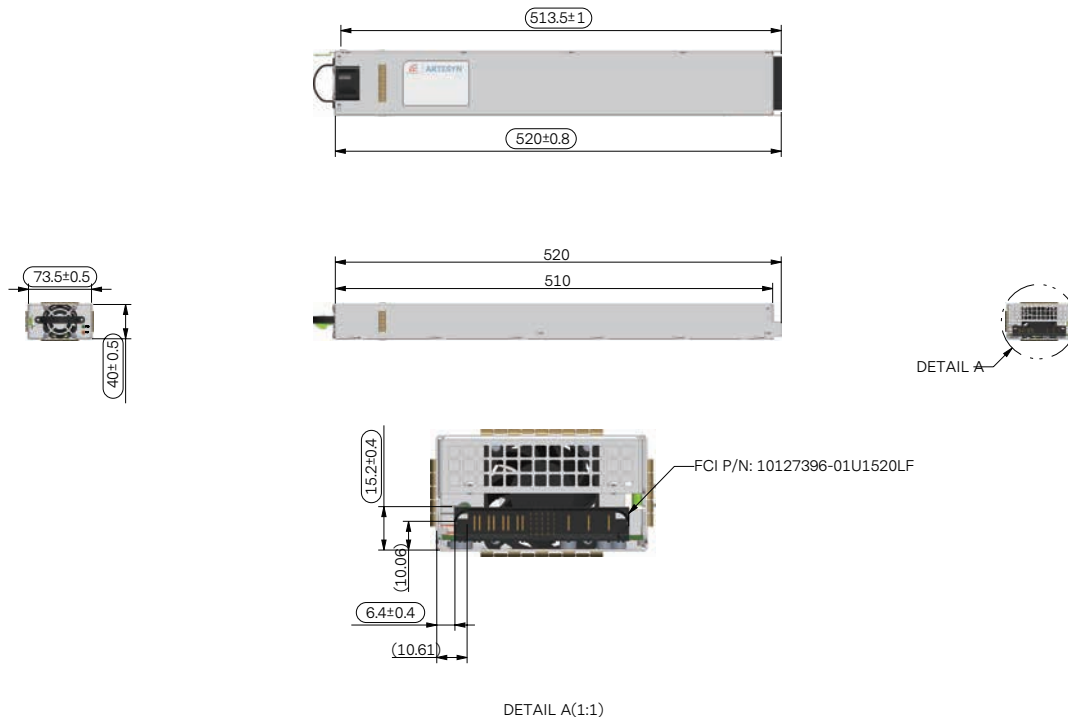
- UL 60950
- IEC 60950
- IEC 62368-1
- UL62368-1
- EN62368-1

# OPEN RACK RECTIFIER

## ELECTRICAL SPECIFICATIONS

INPUT			
	MIN	NOM	MAX
Voltage VAC	180	200/277	305
Hold up (@100% Load 200-277 VAC) msec		20	
iTHD (Load >30%) %			5
Power Factor (10% to 30% loading) %	95		
Power Factor (30% to 100% loading) %	97		
Power Factor (above 50% loading) %	98		
OUTPUT			
	MIN	NOM	MAX
Set Point VDC (50% Load)	49.875	50	50.125
Betty testing voltage (V)		48	
Current A	0		62
Ripple & Noise (@ 20MHz BW) mVpp			500
Output excursion (from nominal voltage) during transient loading mV *Max Current Step: 10% to 50%, 50% to 10% *Dynamic Load @20Hz *Slew Rate: 1A/uSEC	-1		+1




## POWER SUPPLY MECHANICAL OUTLINE



MATING CONNECTOR INFORMATION

DEVICE	CONNECTOR	MATING CONNECTOR	REMARKS
PSU	FCI: 10127396-01U1520LF (PwrBlade ULTRA HD)	FCI: 1027400-01U1520LF (PwrBlade ULTRA HD)	I/O Connector
Shelf	POSITRONIC: SP10RSSH48RM220A1-AA-2269 SP10RSSH48M220A1-AA-2269	POSITRONIC SP10RSSH1F0W01/AA-2268	INPUT CONNECTOR
	TE: 2041376-2 AMPHENOL: RJSAE-J384-02	STANDARD RJ45 PLUG	ETHERNET PORT
	FCI: BarKlip BK500	ORV3 Rack Busbars	OUTPUT 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-36kW



For international contact information,  
visit [advancedenergy.com](http://advancedenergy.com).

[powersales@aei.com](mailto:powersales@aei.com) (Sales Support)  
[productsupport.ep@aei.com](mailto:productsupport.ep@aei.com) (Technical Support)  
+1 888 412 7832

## 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

---

Specifications are subject to change without notice. Not responsible for errors or omissions. ©2020 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy®, AE® and Artesyn™ are U.S. trademarks of Advanced Energy Industries, Inc.