

ARTESYN 50V, 18KW, 10U OPEN RACK POWER SHELF

15 kW N+1



Advanced Energy's Artesyn introduces a 10U, ORv3 compliant shelf that utilizes single or dual cords. Converting incoming supply voltage into a 50VDC output with a total power capability of 18kW. It accommodates 6x 3kW hot-swappable single phase PSU modules. Power Shelf Input(s) are universal 7 pin connector which can be configured as star, delta or single phase. It includes a hot-pluggable Shelf Controller for monitoring and control over Ethernet (DMTF Redfish® compatible) management networks. This power shelf is typically used for compute and storage applications which require reliable power and optional battery backup.

DATA SHEET

Total Output Power:

18kW

KEY FEATURES

- 15000W at 50V with active current share
- Houses 6x3000W power modules and a removable shelf controller
- Very high efficiency
- Accepts 3 types of input configurations (3P Delta 4W, 3P Wye 5W, 3x of 1P)

COMPLIANCE

- EN 61000-4-2 Cat-A for surges
- EN 61000-3-2 Class-A for harmonics
- EN55022, FCC Part 15, CISPR 22, Class-A for EMC

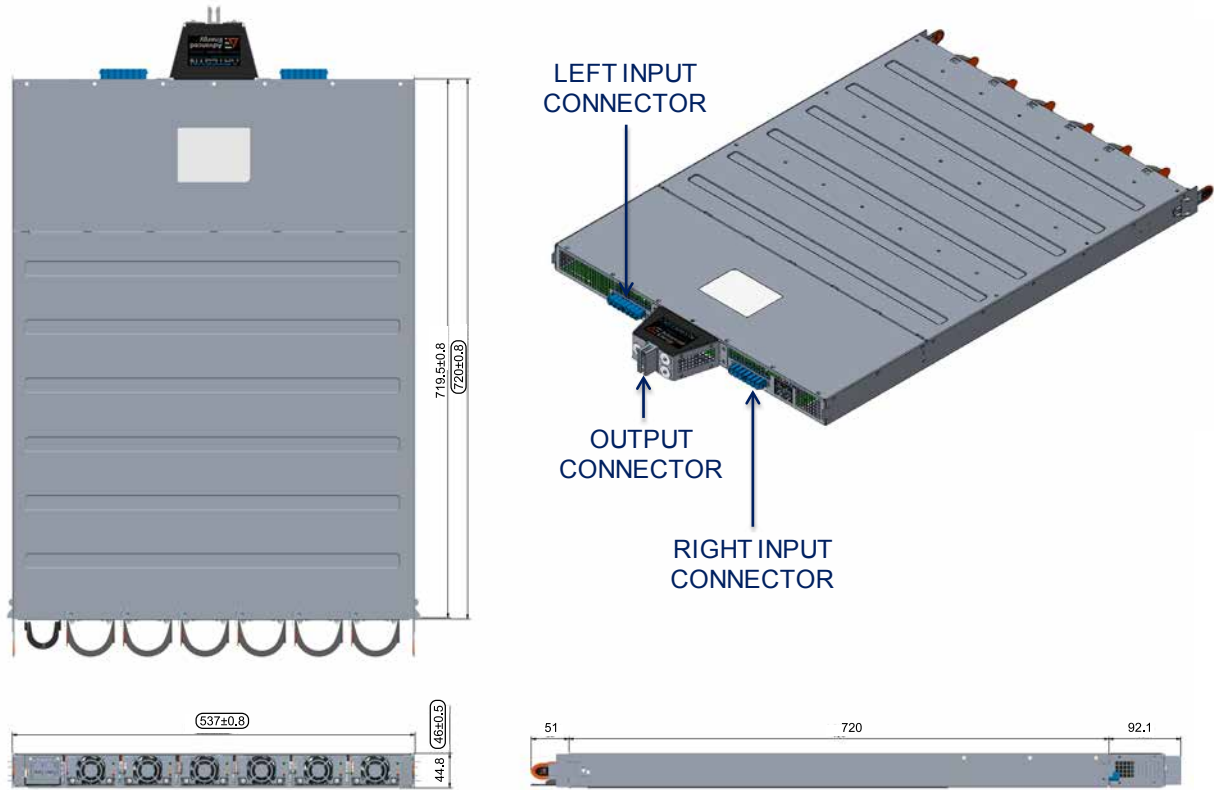
SAFETY

- UL 60950
- IEC 60950
- EN 62368-1
- UL 62368-1
- IEC 62368-1

ELECTRICAL SPECIFICATIONS

INPUT			
	MIN	NOM	MAX
Voltage (3 phase Delta 4 wire) VAC	180	200/277	305
Voltage (3 phase Wye 5 wire) VAC	360	380/480	528
Voltage (3x of 1 phase) VAC	180	200/277	305
OUTPUT			
	MIN	NOM	MAX
Set Point VDC (50% Load)	49.875	50	50.125
Battery testing voltage		48	
Current A	0	300	312
Ripple & Noise (@ 20MHz BW) mVpp			500
Output excursion (from nominal voltage) during transient loading V *Max Current Step: 10% to 50%, 50% to 10% *Dynamic Load: 50Hz / 50% Duty *Slew Rate: 1A/uS	-1		+1

POWER SHELF MECHANICAL OUTLINE



MATING CONNECTOR INFORMATION

DEVICE	CONNECTOR	MATING CONNECTOR
PSU	FCI 10127396-01U1520LF	FCI 10127400-01U1520LF
Shelf	POSITRONIC SP10RSSS48RM220A1-AA-2269 SP10RSSS48M220A1-AA-2269	POSITRONIC SP10RSSS1F0W01/AA-2268
	TE 2041376-2 AMPHENOL RJSAE-J384-02	STANDARD RJ45 PLUG
	FCI BarKlip BK500 Cable 10146534-1A6022HLF	Busbars

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



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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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