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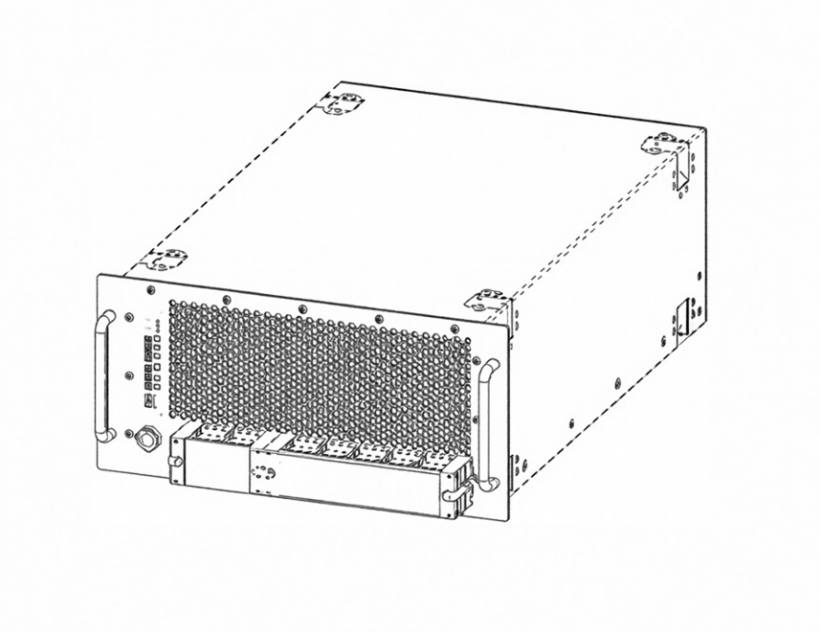
RS150

POWER CONVERSION SYSTEM

Data Sheet

RS150 PCS

120/208, 230/400V, 277/480V
3-phase



15765 Acorn Trail / Faribault, MN 55021 / 507.333.3990

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PRODUCT INTRODUCTION

With a compact, 6U form factor, the transformerless RS150 power conversion system installs directly into a 19” rack. Front-side terminations simplify interconnect, liquid cooling helps support smaller modular footprint and fully parallelable configuration for increased power, 150kW architecture permits easy system expansion.
Offering wide 208-480VAC and 750-1500VDC operating ranges, grid-tie and grid-forming operating modes, advanced “Smart Inverter” features, and design and certification for energy storage applications, system design doesn’t get any easier.

Key Features

Flexible

- Grid-tied and grid-forming
- Seamless transfer
- 750-1500VDC input
- Three- or four-wire transform less configuration
- Liquid internal cooling (external hybrid radiator accessory option)

Scalable

- Designed to be paralleled for higher power applications
- Compact 6U 19” rack-mount design
- Front-side terminations for easy cable routing
- 97%+ CEC efficiency

Integrated

- Black start bias supply for both AC/DC sources
- Internal AC/DC contactors
- Pre-charge, filtering circuitry
- High-speed Communications (Modbus TCP)
- Power Studio / PSCAD configuration/modeling tools

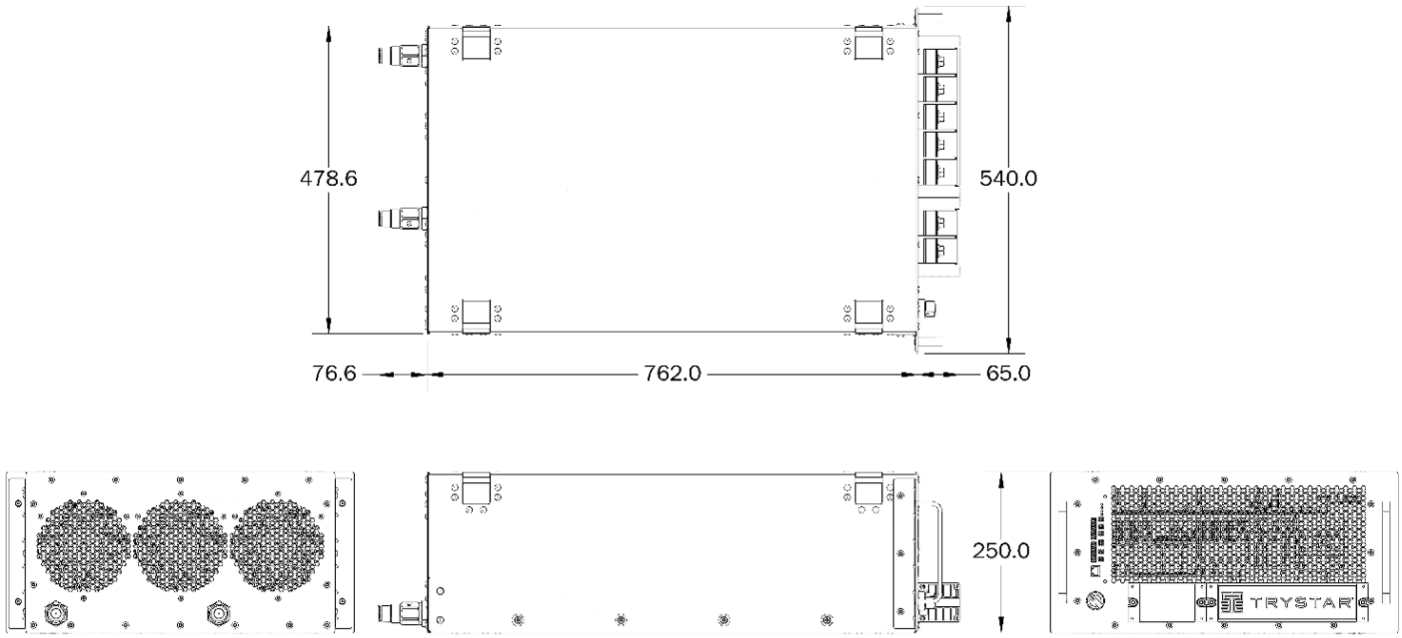
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PRODUCT SPECIFICATIONS

Electrical:		
	DC Connection	Operating Voltage Range: 750-1500 VDC Full Power Voltage Range: 900-1500 VDC Max DC Current: 170 A continuous Wiring Configuration: Two wire Overload: 120% for 30Sec
	AC Connection	AC Line Voltage: 480Vrms 3-phase Max AC Power: 160 kVA @ 480Vrms Max AC Current: 200 Arms Continuous AC Line Frequency: 50/60 Hz Power Factor: -1 to +1 Current Harmonics: IEEE 1547 Compliant, <3%THD Typical Efficiency: 96% 3 Phase (3 or 4 wire), split phase, configurable
Environmental:		
	Operating Temperature	-20°C to 45°C. Derated: 45°C to 50°C. Short term: Full power operation up to 60°C
	Operating Humidity	30 - 90% RH (no condensation)
	Operating Altitude	1,000m no derating, 1,000m - 3,000m derated
	Pollution Degree	2 (IEC 1010-1)
	Ingress Protection	IP20
	Acoustic Noise	75 dBA Max. in all directions, horizontal difference of 3ft.
User Interface:		
	Isolated Communication Link	Modbus RS-485, Modbus TCP
	Register Mapping	SunSpec PCS
	Isolated Digital Inputs	Emergency shutoff | Bias enable | 3 - user configurable
	Isolated Digital Outputs	4 - user configurable
	Indicator LEDs	4
	Warranty	5 years Standard / 5 year Warranty Extension Available
Mechanical:		
	Cooling	Liquid cooled (Water + Glycol) for Power modules, Forced Air Cooled for Electronics
	Weight	250 lbs.
	Dimensions	19” rack 6U
	Vibration	MIL-810E, method 514.4 test condition I-3.3.1
	Shock	Less than 20G, half sine, 11mS, unpacked
	Seismic	1G seismic zone (IEEE 693 High Seismic) with seismic spectra of 0.5G

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ONE-LINE DRAWINGS



ORDERING INFORMATION

Catalog Number: OZPCS-RS150

Catalog Description: Power Conversion System

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