



RSM 48/7.5 & 24/15

# RSM 48/7.5-15 & 48/7.5-22.5 or RSM 24/15-30 Modular Switched Mode Rectifier Systems



**RSM 48/7.5 (24/15) series of modular rectifier systems offer exceptional power efficiency over a wide range of configurations in minimal rack space.**

**Flexible modular design** The RSM 48/7.5 (24/15) rectifier series are designed to provide the ultimate in flexibility and modularity. Cabinets are available in two module and three module configurations for N+1 operation. Each cabinet can be designed as a complete power system accommodating power, supervisory and distribution modules.

**Front access, slide-in modules** Slide-in power and supervisory modules are front accessible for ease of installation, maintenance and upgrading. A front panel distribution option is also available for convenient access to load fuses.

**Compact size** The RSM 48/7.5 (24/15) series are ideal for small power applications such as roadside cabinets and other space-restricted situations. These rectifier systems use an extremely efficient convection cooling process to minimize cabinet size. The 3-module cabinets are equipped with fan cooling to provide high temperature capacity.

**Low noise levels** The RSM 48/7.5 (24/15) series have extremely low electrical noise levels and meet modern emission standards. Audible noise is very low due to their high frequency switched mode design.

Available in 7.5A (48 VDC) and 15A (24 VDC) module capacities

Features individual AC inputs

Optional extended temperature operation (-40° to 65°C)

Optional distribution module

Optional supervisory control module

Optional temperature compensation

**Versatile mounting options** Each system is available in various 19" or 23" rack mounting applications.

**Comprehensive features** The RSM 48/7.5 (24/15) series offers a comprehensive range of standard and optional features which allow it to fulfill an extensive list of communications applications. Standard features include: AC fail alarm, current limit, over voltage protection, test points, over temperature protection and fuse protection. Options include: low voltage alarm, low voltage disconnect, temperature compensation, redundant fan cooling and front access A & B distribution fuses.

**High quality products backed by a solid warranty**

In addition to being ISO 9000 registered, Argus' manufacturing center employs a rigorous quality control program to ensure all products meet the highest quality standards. Each product is designed with only premium grade electronic components and is backed by a comprehensive factory parts and service warranty.



## RSM 48/7.5-15 & 48/7.5-22.5 or RSM 24/15-30 Modular Switched Mode Rectifier Systems

<b>Power Module(s)</b> Up to two or three per cabinet.	<b>Environmental</b> Temperature: 0° to 50°C (32° to 122° F) (natural convection) 0° to 65°C (32° to 149° F) (fan-cooling; standard for 3-module units) -40° to 65° C (-40° to 149° F) [optional]	
<b>Electrical</b> Input voltage: 96 to 132 VAC, 57 to 63Hz (120V modules) 186 to 264 VAC, 47 to 63Hz (208/220/240V modules)  Output voltage: RSM 48/7.5: 48 to 56 VDC RSM 24/15: 24 to 28 VDC  Output current: RSM 48/7.5: 7.5A/ module RSM 24/15: 15A/ module  Output power: 420 W max per module  Power factor: >.90 (displacement) (0 to 100% load)  Efficiency: >.80 (50 to 100% load)  Regulation (0% slope): Static: <0.1% line and load Dynamic: <2% deviation for 50 to 100% load step  Response time: <2ms to 0.1% of output  Noise: Voice band: <22 dBnC with batteries Wide band: <10mV RMS (10kHz to 10MHz) <150mV pk to pk (10kHz to 100MHz)  EMI: FCC Class A compliant Acoustic: <45dBa at 1m (3 ft)	<b>Supervisory &amp; Control Module</b> Optional, one per cabinet.  Indicators: AC fail alarm (red) Test mode Over voltage protection trip (OVP) Low voltage alarm Low voltage disconnect  Adjustments: Over voltage protection Low voltage alarm Low voltage disconnect Voltage test points/test supply  Selectors: Test/normal switch  Test points: Voltage test points/test supply	<b>Temperature Compensation</b> Optional, one per cabinet.  Compensation rate: 2.5mV / °C / Cell (1.4mV / Cell / °F) 3.5mV / °C / Cell (2.0mV / Cell / °F) 4.5mV / °C / Cell (2.5mV / Cell / °F)  Temperature compensating ranges: 0° to 50°C (32° to 122°F) [recommended] -20° to 50°C (-4° to 122°F) -40° to 50°C (-40° to 122°F)  Features Remote compensation disable input Sensor open/Short detector Sensor lead length 12 ft (consult factory for other lengths)
<b>Features</b> Protection: Input & output fuses Input transient Input under/over voltage Over temperature Output current limit/ short circuit protection Output over voltage Output paralleling diode  Indicators/alarms: AC on Module fail Over voltage shutdown Bar graph ammeter with current limit Voltage test points Fuse fail  Adjustments: Output voltage, Slope (paralleling)	<b>Distribution Module</b> Optional, one per cabinet.  Fuse module: 10 position, 0 to 10A GMT fuses (2 module) 20 position, 0 to 10A GMT fuses (2 module, optional) [10A & 10B] 10 position, 0 to 10A GMT fuses (3 module) [5A & 5B] (10A capacity per fuse block)  Indicators (red): A & B Distribution fuse alarms  Low voltage disconnect: Contactor: 20A/60 VDC or 30A/30 VDC (RSM 24/15)  Alarms: Form C contacts  Wiring connections: 6mm <sup>2</sup> (#10 AWG)	<b>Cabinets</b>  Dimensions: 89 H x 432 W x 305 D mm (inches) (3.5" H x 17" W x 12" D) 133 H x 432 W x 305 D (5.25" H x 17" W x 12" D) front access distribution fuses 178 H x 432 W x 305 D (7" H x 17" W x 12" D) 3-module unit  Weight: 10.4 kg (23 lb.) 2-module unit (e/w modules) 20.3 kg (45 lb.) 3-module unit (e/w modules)  Alarm contacts: † AC fail Power module A fail Power module B fail Power module C fail (3-module unit only) Low voltage alarm Fan fail (fan cooled units only)  † Jumper selectable form A/B contacts

Due to continuing product improvements, Argus reserves the right to change specifications without notice.

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