

Power

Pathfinder® 10kW

Modular Switched Mode Rectifier



- Available in 208 Amps @ 48VDC
- 10kW per 3 RU module
- Unique power limiting feature
- Wide range 3-phase AC input
- Optimized for the SM series of controllers
- High efficiency with power factor correction
- Hot swappable rectifier
- Front panel LCD standard

Argus' complete and innovative family of communications-grade rectifiers offers more power at the lowest cost. Years of research and customer consultation have enabled Argus to develop an exceptionally cost effective rectifier that meets the complex demands of today's advanced digital communications equipment.

Pathfinder's hot swappable, front-access design incorporates an advanced switching technology for higher performance and greater reliability. The SM series of system controller provides rectifier setup, adjustment and control in a single-step process. Wide range AC input provides protection from power line disturbances and eliminates nuisance alarms.

SPECIFICATIONS

Rectifier Module(s)

ELECTRICAL	
Input voltage:	187 to 264 VAC three phase, three wire Delta connected 324 to 458 VAC three phase, four wire Wye connected 324 to 509 VAC three phase, four wire Wye connected
Input frequency:	47 to 63Hz
Power:	10kW continuous/module
Power factor:	>0.99 true (50-100% load) (208 to 277 and 360 to 480 VAC)
Efficiency:	90% at 75 to 100% load (nominal Vin)
Output voltage:	42 to 60 VDC
Output current:	185A @ 54 VDC (235A maximum)
Regulation:	-0.2% ±25mV, line and load at 0.2% slope (static)
Transient response:	<1% deviation and 2msec to 0.1% of output for 50 to 100% load step <2% deviation for 10 to 90% load step
Noise	
Voice band:	<22 dBmC with batteries
Wide band:	<10mV RMS (10kHz to 10MHz) <150mV pk to pk (10kHz to 100MHz)
EMI:	See Standards
Acoustic:	<60dBa at 1m (3 ft)
TIF (Current):	<120 at 100% load
MECHANICAL	
Dimensions	
mm:	246 H x 130 W x 305 D
inches:	9.7 H x 5.1 W x 12.0 D
Weight:	31.3 kg (69 lb.)
FEATURES	
Indicators:	AC mains OK - green LED Module OK - green LED Module fail - red LED 2x16 character LCD
Shelf alarms:	Module fail alarm contacts
Controls:	Power on/off button Remote equalize Remote shutdown RS-485 interface Arrow keys (adjust/scroll) Enter/select key

FEATURES CONT'D

Adjustments:	Float voltage Equalize voltage High voltage alarm Low voltage alarm High voltage shutdown Current limit Slope Start delay
Protection:	Current limit/short circuit Start delay Input/output fuses Output high voltage shutdown Power limiting Thermal foldback/shutdown Input transient AC low line foldback/shutdown AC high voltage shutdown

Shelves

MECHANICAL	
Dimensions:	
mm:	133 H x 533 W x 511 D
inches:	5.25 H x 21.0 W x 20.1 D
Weight:	7.8 kg (17.2 lb.)
Mounting:	23" flush/offset/center mounting for single module
<i>Customer to provide rear support for flush mounting.</i>	
CONNECTIONS	
Input:	Box type terminal block 6 to 16mm ² (#10 to 6 AWG)
Output:	3/8" threaded inserts on 1" centers
Chassis ground:	Compression lug 6 to 16mm ² (#10 to 6 AWG)
Alarms/control:	Terminal block 0.55 to 1.5mm ² (#20 to 16 AWG)
SM communication:	RJ 12 offset

Environmental

Temperature	
Standard:	0° to 60°C (32° to 140°F)
Extended:	-40° to 60°C (-40° to 140°F)
Storage:	-40° to 70°C (-40° to 158°F)
Humidity:	0 to 95% R.H. non-condensing
Elevation:	-500 to 2800m (-1640 to 9186 ft)

Standards

The Pathfinder 10kW is designed to meet the following:

CSA:	22.2 N° 950-95 (to NRTL/C)
UL:	1950-95 (under NRTL)
CE:	EN60950-2nd Amend. 1-4
FCC:	Part 15, Class A
ANSI/IEEE:	C62.41 Category B3
Bellcore:	GR-63-CORE 4.3.1 and 4.4.4
EMC Emissions:	EN55022 (CISPR 22) Class A EN61000-3-2
Immunity:	EN 61000-4-2 to -6 EN 61000-4-11 ENV 50204

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For more information and detailed drawings, visit argusdcpower.com