



Trio Series

trio Model B033
6kW 48V Rectifier &
Distribution System
with Remote Control

With the introduction of its new Trio series, Argus has set a bold new standard for cellular power.

Highly compact This system provides all the features of its fully racked counterpart in a cabinet that is only 7 RU. Each cabinet can accommodate 6kW of Argus Pathfinder rectifier output. Provision for up to 100 Amp "Bolt-in" breakers for the distribution of 48V has been incorporated in the design to enhance ease of installation. Factory set high and low voltage alarms with low voltage disconnect control provide the basic supervisory functions while a 200A contactor disconnects the load when the battery discharges to a preset level.

New package, more features You'll notice right away that the Pathfinder Series looks different than other rectifiers. Its sleek profile incorporates an advanced switching technology which actually reduces the unit's total number of components. The result is a new generation of rectifier with a higher performance and reliability rating than other products.

Hot swappable modules Expansion is worry-free with Pathfinder's hot swappable, front access design. Operators never have to interrupt service as the power module's slide easily in or out of the cabinet even while the system's online.

Better protection from power disturbances Pathfinder's design uses durable, field-replaceable metal oxide varistors (MOVs) to withstand lightning strikes. A wider range of AC input provides protection from power line disturbances and avoids nuisance alarms. Used in combination with high interrupting capacity fast acting fuses, this translates into better overall reliability of the power system and fewer callouts.



- Four Pathfinder 1.5kW rectifier modules
- 200 Amp contactor (LVD or LVBD)
- Accepts 16 bolt-in breakers - 0-100 Amps
- Four distribution fuses with alarms
- SM04 system controller with remote access
- Dual AC feeds
- Compact, only 7 RU
- Total front access

Centralized supervision and control With Trio, the integrated SM04 system controller acts as the main operator interface. That means rectifier setup, adjustment and control is a single-step process that occurs from one centralized, easy-to-use source. It also means that Trio can take advantage of the many features available with the SM04, including optional remote communications access.

Remote/Local monitoring With the SM04, monitoring your power system remotely is convenient and easy. Choose to connect through the optional internal modem or by an optional external modem attached to the front access RS-232 interface. Local terminal access is made through this same front access port. A universal "worldwide modem" now exists, and an optional billing tone filter can be included to keep your data stream clean.

Password protection The SM04 secures your system by permitting access only after password verification. Access can therefore be limited to regular staff and supervisors, providing complete protection from tampering. If the password is not validated, access is limited to read-only mode.



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Cabinet

Environmental

Temperature: -40° to 65°C
(-40° to 149°F)

Humidity: 0 to 90% R.H.
non-condensing
-500 to + 2800 meters
(-1500 to +9000 feet)

Mechanical

Dimensions: 310 H x 584 W x 371 D
mm (inches) (12.2"H x 23"W x 14.6"D)

Weight: 21.3 kg (47 lb.)

System level alarms/controls

Alarms/control parameters are user-programmable through built-in system controller. See SM04 datasheet #048-551-10 for detailed information.

System level

indicators: 2x16 character LCD
System OK
System major alarm
System minor alarm

Indicators (via Pathfinder):

AC mains OK - green LED
Module OK - green LED
Module fail - red LED
Optional 2x16 character LCD

Controls: ALCO key (silence audibles)
ESC key (cancel)
2 arrow keys (adjustment/scroll)
Enter/Select key (edit/save)
F1 key (special purpose)
LVD override switches (2)

Adjustments (via SM04):

Float and equalize voltage
Battery test voltage
High and low voltage alarms
High voltage shutdown
Current limit
Start delay time
Slope %

Connections

AC Input: Box type terminal block
2.5 to 10mm² (#14 to 8 AWG)

Output: Bus adapters with 3/8"
studs on 1" centers

Ground Bar: 1/4" holes on 5/8" centers

Alarms/Control Terminal Block:
0.55 to 1.5mm²
(#20 to 16 AWG)

SM Communication:
RS-232 built-in

Rectifiers

Pathfinder 48V-1.5kW rectifiers (see datasheet # 048-549-10).

Protection: Current limit/short circuit
Start delay
Input/output fuses
High voltage shutdown
Power limiting
Thermal foldback/protection
Input transient
AC low line foldback

Standards

The Pathfinder 1.5kW is designed to meet the following specifications:

CSA: C22.2 N° 950-95
UL: 1950-1995 (under NRTL)
CE: EN 60950-93 Amend 1-4
FCC: Part 15, Class B
ICES-003: Class B
ANSI/IEEE: C62.41:1991 Cat B3
EMC
Emissions: EN 55022 Class B
EN 61000-3-2
Immunity: EN 61000-4-2 to -6
EN 61000-4-11
ENV 50204

Ordering Information

Please consult the factory for detailed ordering information.

Notes

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

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