



trio Model TR34
12kW 48V Rectifier &
Distribution System
with Remote Control

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

Highly compact This system provides all the features of a traditional seven foot power system in a cabinet that is only 12 RU high. Each cabinet can accommodate 12kW of Argus Pathfinder rectifier output. Provision for up to 100 Amp bullet-style breakers (24 positions) 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 400A 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 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.

Product Release **Trio Series**



Total front access

Four Pathfinder 3kW rectifier modules

400 Amp contactor (LVLD)

400 Amp manual battery disconnect

Accepts 24 bullet-style breakers - 0-100 Amps

SM04 system controller with remote access

Two hole DC connections

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.

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	Indicators (via Pathfinder): AC mains OK - green LED Module OK - green LED Module fail - red LED Optional 2x16 character LCD	Distribution Optional breakers/panels may be ordered for expansion.						
Environmental Temperature: -40° to 65°C (-40° to 149°F) Humidity: 0 to 95% R.H. non-condensing -500 to + 2800 meters (-1500 to +9000 feet)	Standards The Pathfinder 3kW is designed to meet the following specifications:	AM-type bullet style: Up to 100A (24 positions)						
Mechanical Dimensions: 533 H x 584 W x 381 D mm (inches) (21"H x 23"W x 15"D) Weight: 51.7 kg (114 lb.)	CSA: 22.2 N° 950-95 (to NRTL/C) UL: 1950-3rd ed. (under NRTL) CE: EN 60950-93 Amend 1&2 FCC: Part 15, Subpart B, Class B CISPR 22: Class B (EN55022) EN60555-2: Harmonic disturbances IEC: 801, -2, -3, -4, -5 ANSI/IEEE: C62.41 Cat B	Related Parts Please consult the factory for detailed ordering information.						
Connections AC Input: Box type terminal block 2.5 to 10mm ² (#14 to 8 AWG) Distribution: Breakers: 1/4" holes on 5/8" centers Ground: 1/4" holes on 5/8" centers Battery: 3/8" holes on 1" centers (2 sets) Alarms/Control Terminal Block: 0.55 to 1.5mm ² (#20 to 16 AWG) SM Communication: RS-232 built-in, DB9-M	System Control Alarms/control parameters are user-programmable through built-in system controller. See SM04 datasheet #048-551-10 for detailed information.	<table border="1"> <thead> <tr> <th>Description/Model</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>SM04</td> <td>018-543-20</td> </tr> <tr> <td>Pathfinder 48V-3kW</td> <td>010-537-20</td> </tr> </tbody> </table>	Description/Model	Part #	SM04	018-543-20	Pathfinder 48V-3kW	010-537-20
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Rectifiers Pathfinder 48V-3kW rectifiers (see datasheet # 048-537-10). Protection: Current limit/short circuit Start delay Input/output fuses High voltage shutdown Power limiting Thermal foldback/protection Input transient AC low line foldback	Features: Centralized operation Password protection Remote/local monitoring Battery Autoequalization Temperature Compensation Software is upgradable System level indicators: 2x16 character LCD System OK System major alarm System minor alarm Controls: LVD battery disconnect control switches (2) ALCO key (silence audibles) ESC key (cancel) 2 arrow keys (adjustment/scroll) Enter/Select key (edit/save) F1 key (special purpose) Adjustments example (via SM04): Float and equalize voltage High and low voltage alarms High voltage shutdown Current limit Start delay time	<p style="font-size: small;">Due to continuing product improvements, Argus reserves the right to change specifications without notice.</p>						

ISO 9002 registered

