

# Power

## 550kW Pathfinder<sup>®</sup> System

Modular Power System



- › 48VDC, up to 11,400A capacity
- › Designed for MSCs, COs, and Cable Headend facilities
- › 10kW modular rectifiers
- › Circuit breaker and TPL fuse options
- › Compact footprint
- › Internal Bay-to-Bay copper busswork
- › Expandable power and distribution bays

The Argus 550kW Pathfinder power system provides high-capacity DC power for large communications applications. The 550kW Pathfinder system combines the capabilities of distribution, advanced microprocessor-based supervision, and modular rectifiers in a seamless integrated package. Shunt mux option provides single-point monitoring of branch distribution.

The 550kW Pathfinder system is cost effective due to the internal copper busswork, and is delivered ready to assemble with factory-tested components. No overhead support is required. Cable access is from both top for standard installations and bottom for computer floor applications. Hot swappable power modules and internal busswork provide safe, easy installation and maintenance.

## 550kW Pathfinder System Modular Power System

### Electrical

#### Input voltage, Pathfinder 48V-10kW:

187 – 294VAC three phase, three wire (Wye or Delta) connected  
324 – 509VAC three phase, four wire (Wye with neutral) connected

#### Input voltage, Pathfinder 48V-3kW

Nominal: 208 – 240VAC  
Operating: 176 – 275VAC  
Extended: 90 – 312VAC (derated)  
Output voltage: 48 – 58VDC  
Output current: 185 @ 54VDC (per Pathfinder 48V-10kW)  
Power: 10kW continuous (Pathfinder 48V-10kW)  
AC input: Individual feeds pre-wired from AC junction box  
Max. bus capacity: 10,000A  
Fuses  
TPL: 2-position, 61 – 800A  
Breakers  
GJ/GJ1P: 1P 0 – 225A, 2P 250 – 400A, 3P 450 – 700A  
Output termination  
TPL fuse: 2-hole 1/2" dia. on 1.75" centers  
OR  
2-hole 3/8" dia. on 1" centers  
GJ breaker: 1P and 2P are 3/8"-16, 3P are 2-hole, 1/2" dia. on 1.75" centers  
OR  
3/8" dia. on 1" centers  
Ground bar: Overhead buss ground, 15 sets of 2 hole 1/2" dia. on 1.75" centers (basic system)

### Mechanical

Enclosure: 1.095mm (14 gauge) steel  
Mounting: Standard 23" relay rack (flush rack mount) in box bay  
Dimensions  
cm: 213H x 71W x 71D  
inches: 84H x 28W x 28D  
Weight: Approx. 272kg (600lb) per bay (no rectifiers)

### Environmental

Temperature: 0 – 50°C (32 – 122°F)  
Humidity: 0 – 90% RH non-condensing  
Elevation: -500 – 2800m (-1640 – 9186ft)

### Related Components

#### Rectifiers

see datasheet #048-548-10

#### System Level Alarms/controls

Alarms/control parameters are user-programmable through built-in digital supervisory unit. See SM02 datasheet #048-525-10 for detailed information on alarms and controls available.

### Features

#### Indicators

LCD with graphics capability  
System OK  
System major alarm  
System minor alarm

#### Load Disconnect

48VDC/1200A x N mounted on load side

#### Alarm

Connections: 0.34 – 2.5mm<sup>2</sup> (14 – 22AWG)