

# PRG Series 400™ Power and Data Distribution System

## POWER OF CONTROL

PRG introduces the Series 400™ Power and Data Distribution System, which distributes house power service and control signals for the purpose of operating automated luminaires or other remote devices up to 500 feet away. The Series 400 System provides superior reliability and safety in all applications from the smallest venue to the largest tour. Key features include rugged AC power components, reliable control signal distribution and a modular design, which offers flexible customization and future expandability.

## DATA IS THE DIFFERENCE

Unlike other power distribution racks, the Series 400 System features built-in control signal distribution. By distributing *both* power and data, the system not only reduces cabling, but also improves communications reliability with its robust data components. The rack accepts 10/100Mb/sec Ethernet, DMX512, DMX512 over Ethernet, and DMX RDM, and has the ability to handle all protocols simultaneously. All available DMX512 universes can be routed to *any* of the system's DMX512 outputs.

## SAFETY BY DESIGN

The Series 400 System provides advanced safety features. Solid copper rigid bus bars, minimal internal current-carrying connections and a safety interlock system all work together to protect crew and stage personnel during all phases of system installation and operation.

## CUSTOMIZE YOUR SYSTEM

The Series 400 System is available in a variety of configurations, ready to meet all your power and data distribution needs. The modular design takes it one step further, offering powerful accessories such as the Front of House Breakout Box, which provides convenient AC power and control signal inputs at the mixer position for both a primary and backup control console.



## Features

- Supports up to 72, 1.2k Watt Devices
- Single, Dual, and 3-Phase Outputs
- 400 Amp Cam-Loks In and Out
- 120V and 208V Outputs
- Signal Routing Control and Display
- 10/100Mb/sec Ethernet and DMX512 Inputs
- Digital Current and Voltage Metering
- System Master Switch
- Flush Rocker Circuit Breakers
- Rear 120V Convenience Outlets
- L6-20 and Neutrik® 208V Outputs
- Front and Back LED Lighting
- Safety Interlock with Breakout Boxes
- Hot-Swappable Breaker Modules
- Modular Design
- Capacity for additional third-party signal processing devices
- Weighs a maximum of 305 lbs. when fully loaded

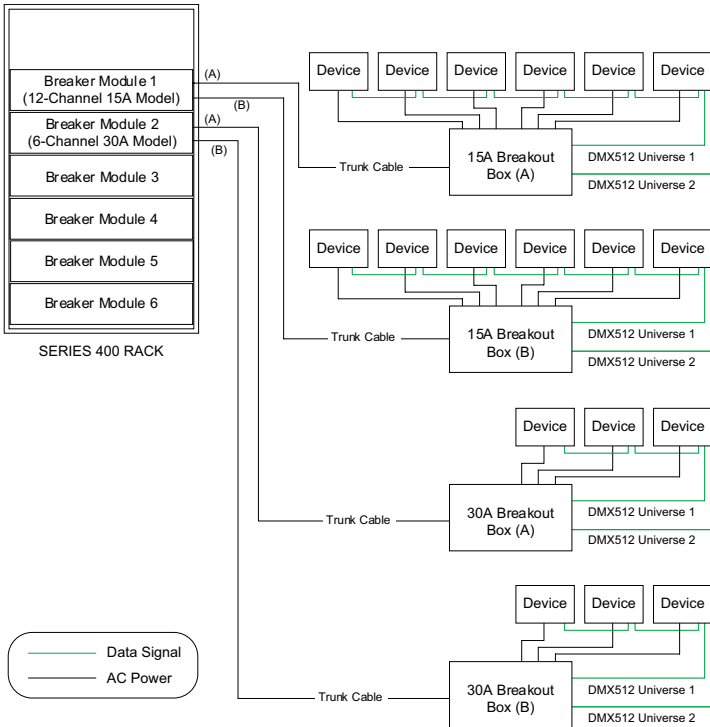


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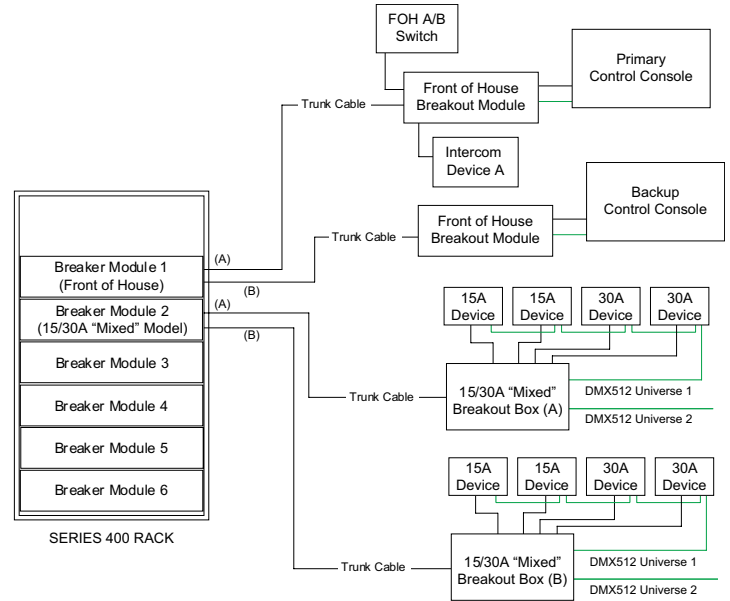
## PRG Series 400™ System Specifications and Operation

A Rolling Rack houses an internal 3-phase, 400 Amp bus bar system which is connected to the house power service by 4/0 Cam-Lok cables. The Rack accepts hot-swappable chassis modules that automatically connect to the internal power bus. These Breaker Modules supply various types of AC power to individually protected branch circuits. The branch circuits are conducted to remote Breakout Boxes by custom Trunk Cables and connectors capable of powering 1200 watt luminaires at distances of up to 500 feet.

An integrated Signal Distribution System is provided where control data is applied at the Series 400 Rack. This data is transmitted by the Trunk Cables to the remote Breakout Boxes where it is available for luminaires or other devices. The Signal System will accept 10/100Mb/sec Ethernet, USITT DMX512, and DMX512 over Ethernet, and will handle all three protocols simultaneously. The DMX512 universes are available at each of two outputs on the Breakout Boxes. The Menu Display on each Breaker Module can be used to configure which universe is output to each connector.



Simplified Rack Configuration Diagram  
(15A Breaker Modules and 30A Breaker Modules)



Simplified Rack Configuration Diagram  
(15/30A Mixed Breaker Modules and Front of House Components)

## Safety Features

The Series 400 System provides superior safety features:

- The number of internal current-carrying connections is minimized to reduce heat-related failures at clamp and crimp joints.
- Solid copper rigid bus bars eliminate flex failures and soft crimp connections, which are responsible for most electrical fires. Rigid buses replace most flexible high current wiring, providing solid, low-loss connections between components.
- A simple interlock system applies power to the branch circuits only when a compatible Breaker Module and Breakout Box are connected by a Trunk Cable. Additionally, the interlock system applies power only after ALL connections are made, protecting stage workers from shock during installation.

## Ordering Information

20.9680.1915	15A 120V Breaker Module
20.9680.2915	15A 208V Breaker Module
20.9680.2630	30A 208V Breaker Module
20.9680.2815	15/30A 208V (mixed) Breaker Module
20.9680.5615	15A 120V Breakout Box
20.9680.6615	15A 208V Breakout Box
20.9680.6330	30A 208V Breakout Box
20.9680.6415	15/30A 208V (mixed) Breakout Box
20.9680.2245	Front of House Breaker Module
20.9680.8615	Front of House Breakout Module
20.9680.8200	Front of House A/B Switch
21.9680.0661	1U Safety Cover Plate Assembly
21.9680.0662	2U Safety Cover Plate Assembly
21.9680.0660	3U Safety Cover Plate Assembly
22.9620.0194	Safety Cable Assembly
25.9680.9012	Ethernet Patch Cable, 12"
25.9680.9024	Ethernet Patch Cable, 24"
55.6841.0001	Mega-Claw Truss Hook

## Production Resource Group

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