

## Key Features

- **Full Distribution Options**—means that any combination of distribution circuit breakers or fuses may be provided
- **Optional Low Voltage Disconnect**—provides battery protection with dual control circuits for increased system protection
- **Wide Capacity Range**—eliminates the need for the over-provisioning of power by specifying a system capacity to meet specific load requirements
- **Complete System Control**—with an easy-to-read digital meter/control and alarm panel and SMART DGU microprocessor control and monitoring unit
- **Seismic Zone 4 Bracing**—available seismic configurations provide the added stability required in earthquake zones
- **Space Efficient Components**—result in more open rack or box framework space for distribution panels and rectifiers
- **Power System Control Functions**—offered on an optional basis allows the customizing of a system to meet the requirements of a small, customer premise application to a full-scale central office or cell-site application
- **Rear Access Design**—provides cost and space efficiency for all applications where rear accessibility is preferred

*Marconi*

# 600-10,000 amp, -48 VDC Power Distribution Bay

## Description

The Lorain® model 1231H1 is a versatile and flexible -48 VDC power system designed to provide protected power distribution and simplified monitoring, control and system diagnostics. The 1231H1 is available in amp ratings from 600-10,000 amps in a wide range of configurations allowing you to “customize” this unit to your specific application.

The 1231H1 is available in framework arrangements in capacities of 600 to 10,000 amps. Main bay and supplemental bays feature cable turning sections to alleviate cable congestion. The bus bar for both the main bay and the supplemental bays is a predrilled, overhead, bolt-on bar which permits on-line expansion of the plant.

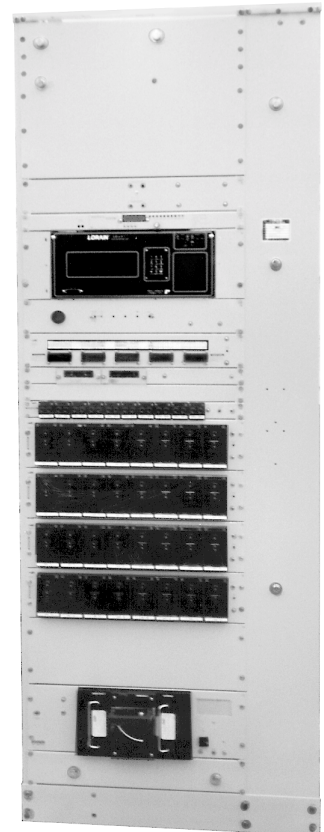
The systems are configured to accept a wide range of standard Lorain distribution and alarm panels, giving you an almost limitless choice of distribution options. Circuit breaker panels range from a 10 position, 0-100 amp panel to a 300-600 amp breaker panel equipped with a 600 amp shunt. Distribution fuse panels range from a 20 position, 0-5 amp panel to 600 amp fuse/switch units.

The 1231H1 can be equipped with an optional digital meter and alarm panel. This panel provides for basic monitoring of system load, voltage and miscellaneous alarms. The alarms monitored include two high and two low voltage alarms (adjustable), fuse alarm, major and minor alarm and an adjustable overcurrent alarm.

The Lorain SMART DGU is also available as an option. The DGU is the state-of-the-art in power system monitors and can be used as the single monitoring and controlling unit for your system. It can also perform a redundant function when utilized with the meter panel.

## Application

The Lorain -48 volt, 600-10,000 amp DC power systems are designed for powering DC equipment for applications in switch sites and large customer premises sites.



# 600-10,000 amp, -48 VDC Power Distribution Bay

## **Additional Information**

For additional specification, engineering and installation information, request model number 1231H1, spec. number 582112100 (3,600 amp) or spec. number 582112900 (10,000 amp).



**[www.marconi.com/power](http://www.marconi.com/power)**  
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