

Product Features

- DC Power System / Charger
-48V; +24V; 130V
- Integrated Management Screen
- Individual Circuit Protection for
Battery and Load Outputs
- High Power Density
Switch-Mode Architecture
- Hot Swappable Rectifier Modules
- N+1 Configuration
- Dynamic Battery Recharge
- Equalize Charge Timer
- Optional Battery LVD
- Wide Temperature Range
- Integrated AC Main Protection
- Front Access Maintenance
- Locking Cabinet Door
- Designed to UL60950-1 Safety
- TUV/CE Approvals

Alarm & Control Interface

- LCD Display with Control Buttons
- Form-C Contacts
- Alarm History with Time Stamp
- Temperature Compensation
Voltage Control (sensor included)
- User Friendly Operation Interface
- System Status; System Capacity
- Field Replaceable Units
- High MTBF

Majorcharge® DC Power System



Product Overview

The Majorcharge wall mounted configuration offers up to 100A@48VDC; 160A@24VDC or 40A@130VDC utilizing switch mode rectifiers and comes pre-configured with one load & one battery circuit breakers.

The charger configuration blends a compact secure wall mounted platform and modular rectifier design. The cutting edge technology is coupled with standard intelligent power management features like temperature compensation, voltage control, and optional battery LVD contactor.

Configure the power system to the needs of the application by installing hot swappable rectifiers. The integrated Alarm & Control Interface monitors critical system conditions and facilitates comprehensive system programming.

Designed to cover comprehensive DC power requirements for either “battery charger only” applications or “continuous duty operation” as the power supply for critical equipment connected in parallel with a battery.

DC Power System for Utility & Industrial Applications

Rectifier Selection Guide

The Rectifier module operates in a wide input VAC range (nominal 208 - 240V full power) and provides rated current over a temperature range of -5° C to +45° C. The advanced switch-mode design provides highly regulated, low noise DCV power at better than 89% efficiency. Forced air cooling is engineered with variable speed circuitry for efficient and low noise operation. EN60950-1 & CE Approved



Order Number	Output Current	Output Voltage: VDC
MCR24/40	40 A	27 V
MCR48/25	25 A	54 V
MCR130/10	10 A	130 V

System Selection Guide

Order Number	System Capacity	Rectifier	Battery LVD	Additional Circuit Breakers*
MCS48/100X1-WM	25-100A	MCR48/25 (1 to 4)		√
MCS48/100L1-WM	25-100A	MCR48/25 (1 to 4)	√	√
MCS24/160X1-WM	40-160A	MCR24/40 (1 to 4)		√
MCS24/160L1-WM	40-160A	MCR24/40 (1 to 4)	√	√
MCS130/40X1-WM	10-40A	MCR130/10 (1 to 4)		√
MCS130/40L1-WM	10-40A	MCR130/10 (1 to 4)	√	√

* Circuit Breakers – Select and add up to 3 more circuit breakers to the battery bus and/or to the load bus. Maximum 4 per bus.

Standard Equipment – Each system includes:

- | | |
|------------------------------------------|----------------------------------------------|
| ➤ Integrated Alarm and Control Interface | ➤ Temperature Compensation Probe – 3M length |
| ➤ Control Software and LCD Screen | ➤ 1 Load and 1 Battery Circuit Breaker |
| ➤ Form-C Alarm Contacts | ➤ 2 Pole AC Service Entry Circuit Breaker |

Mechanical Overview Drawing:

