

# CRC-100™

*Corrpro Rectifier Controller (Model 100)*

## Description

The CRC-100™ has been designed to be a total solution for any rectifier application. It can replace many (if not all) of the individual boards associated with typical rectifiers. By reducing the number of interconnection wiring/connector points increased reliability is achieved.

The footprint is very small, thereby increasing the ventilation within the rectifier. The CRC-100™ comes standard with three output relays that can be used for alarm outputs or to switch an external high power relay for the built in interrupter (AC line/non-synchronous). All parameters are fully user programmable via the onboard keypad. The display is a high intensity red LED alphanumeric display that surpasses any LCD display for readability in high/low temperature extremes. The CRC-100™ can also have password protection enabled so that only authorized personnel can modify the operating parameters. Bluetooth is an available option that will allow the user to remotely (within ~100m [330 ft]) record the rectifier's outputs and alter programming without having to access the rectifier panel. A simple to use software package for the PC and select Bluetooth enabled PDAs is included with the Bluetooth option. The CRC-100™ can be retrofitted into just about any manufacturer's rectifier.



## Features

- Three individually programmable alarms (Volts/Current/Potential\*)
- User programmable alarm high/low set-points and programmable hysteresis
- Six-digit by three-row high intensity alphanumeric LED display
- High intensity RGB LED status indicators for alarms, interrupt and mode
- User programmable password protection for authorized personnel system setup/alterations
- Bluetooth (optional)
- AC line synchronized interruption (external high power relay/SSR required)
  - Timed mode (0.1 to 500.0 seconds on/off)
  - CIS mode
  - WFA mode
- Potential input (optional)

- True RMS (optional)
- Network interface (optional)
- RS232 serial interface (optional)
- Single channel analog output (optional)
- Real time clock (optional)
- SCR controller, constant voltage/current/potential control and IR-free mode support\* (optional)
- GPS synchronized interruption\* (optional)
- Local external interrupt input\*
- 4-20 mA outputs\* (optional)
- User programmable display sleep mode
- Free lifetime firmware updates
- One-year warranty, from date of purchase against defective components and faulty workmanship

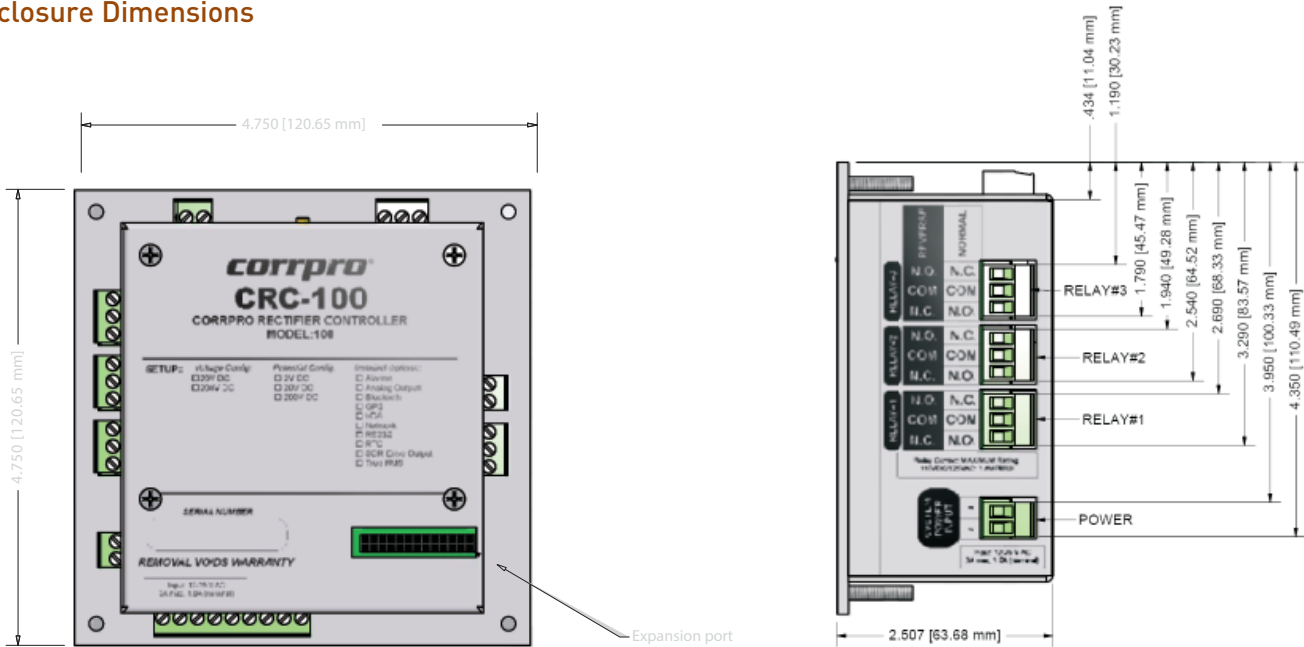
## Specifications

- Voltage input range 0-20VDC or 0-200VDC
- Current shunt input range 0-200mVDC
- Potential input range (option) +/- 2000mVDC or +/-20VDC or +/- 200VDC
- Full 4-digit metering on volts and amps
- 3.5 digit metering on potential (option)
- Metering: +/-2% F.S.D.
- Operating ambient: -40° to +45°C [-40° to 113°F]
- Robust housing constructed from marine grade aluminum
- Durable lexan front panel
- High quality 10 million operating cycle low temperature rated switches utilized in the keypad
- Six digit by three row high intensity alphanumeric LED display is robust and has excellent high and low operating temperature extremes far surpassing any LCD display
- Three 1A @ 125VAC on-board relays (NO/COM/NC)
- Externally powered from a 12-to-24 volt AC step-down transformer

\* Denotes additional hardware module(s) required.

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## Enclosure Dimensions



## Front Panel

### Alarm Indicators:

- Green = Normal condition
- Yellow = Low alarm
- Red = High alarm
- Off = Alarm not enabled
- Violet = High alarm set-points
- Blue = Low alarm set-points

### Status Indicators:

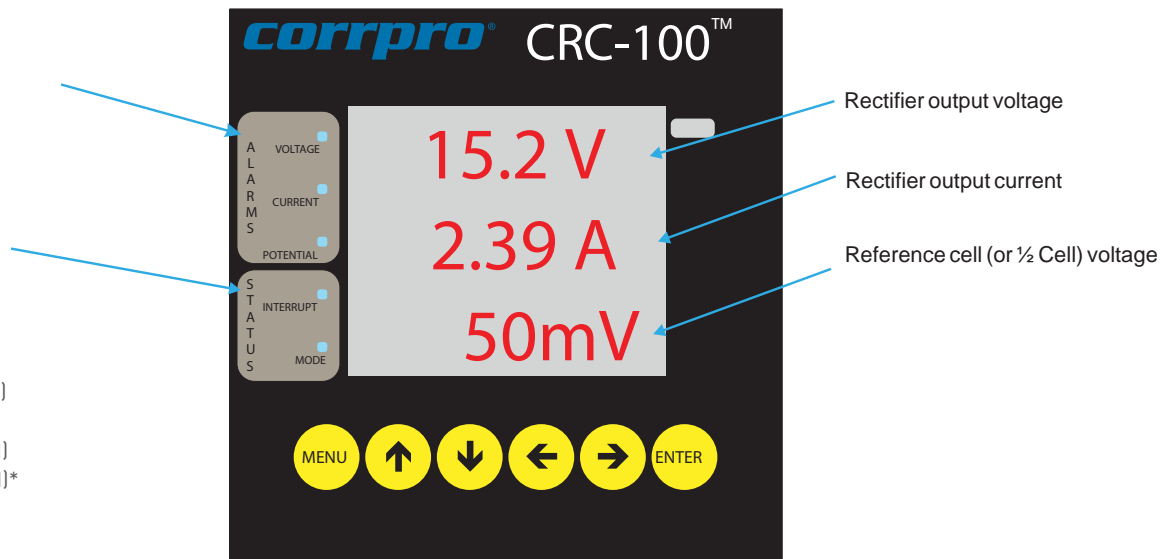
#### Interrupt LED:

- Off = Interrupt not enabled
- Red = Interrupt (Output OFF)
- Blue = Timer Mode (Output ON)
- Cyan = CIS Mode (Output ON)
- White = WFA Mode (Output ON)
- Green = GPS Mode (Output ON)\*

#### Mode LED:

- Off = Controller module not installed
- Green = Current mode control\*
- Yellow = Potential mode control\*
- Red = Voltage mode control\*
- Blue = Soft start\*

\*Denotes additional hardware module(s) required.



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