

# Cathodic Protection Rectifier C.P Sentinel Series:

**Integrated Rectifier Technologies C.P. Sentinel Series** rectifier provides the precise control required in many of today's applications. Utilizing the state of the art **SENTRY/TRI-SENTRY CONTROLLER™**, the C.P Sentinel units deliver unmatched performance and features for the most demanding of CP applications in a multitude of industries.

## Standard Features:



- ◆ Available in our Advantage Line of Air or Oil cooled enclosure (cabinet rating and optional construction dependant on application)
  - ◆ Fully automatic control modes available; IR-Free potential (single phase only); Constant "On" Potential; Constant Current or Constant Voltage
  - ◆ Potential control accuracy within +/-5 mV of set point
  - ◆ Current and Voltage control within +/-1% of set points
  - ◆ Automatic Potential, Current & Voltage Mode operation with seamless, automatic transfer between operational modes
  - ◆ LED Status lamps indicate operational mode
  - ◆ Reference Cell input resistance >20Meg-Ohms
  - ◆ Innovative "anti-spiking" circuitry prevents current overshoot during current interrupt mode
- 
- ◆ SCR/Diode rectification module with surge protection
  - ◆ Single and three phase inputs available
  - ◆ Transformer: min 95% efficient, Class "H" rated
  - ◆ Overload/ short-circuit protection by fully magnetic circuit breaker including AC secondary fusing
  - ◆ 3 ½' continuous readout DC metering, accuracy +/- 2%
  - ◆ High energy AC & DC surge & lightning protection
  - ◆ -40 to +50 degrees C (-40 to 122 F) operating ambient
  - ◆ One year Warranty
  - ◆ Multiple options available; tailored to the application
  - ◆ CSA approved



**SENTRY CONTROLLER™:**

## INTEGRATED RECTIFIER TECHNOLOGIES, INC.

Distributed by:  
Interprovincial Corrosion Control Co. Ltd.  
930 Sheldon Court  
Burlington, Ontario L7L 5K6  
Telephone: (905) 634 7751  
Fax: (905) 333 4313

# C.P Sentinel Air Series Model Coding

## CPASAS 40-28B

### C.P SENTINEL MODEL

- CC - CURRENT CONTROL
- CI - IR FREE POTENTIAL CONTROL
- CP - ON POTENTIAL CONTROL
- CV - VOLTAGE CONTROL

- A - AIR-COOLED TYPE
- O - OIL-COOLED TYPE

### SILICON RECTIFIER TYPE

#### AC INPUT

- A - 115 VAC
  - B - 208 VAC
  - C - 230 VAC
  - D - 416 VAC
  - E - 460 VAC
  - F - 115/230 VAC
  - G - 230/460 VAC
  - H - 600 VAC
  - Z - OTHER INPUT
- CONSULT  
FACTORY

#### AC PHASE

- S - SINGLE PHASE
- T - THREE PHASE

#### DC VOLTAGE RATING

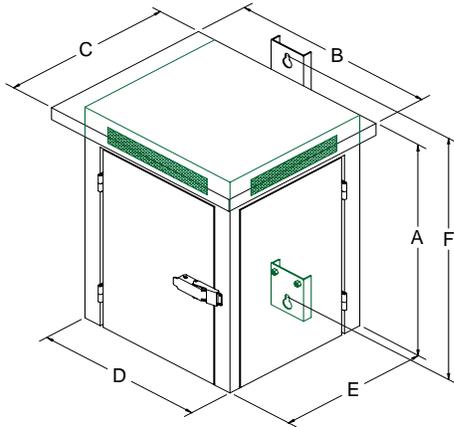
#### DC CURRENT RATING

### COMMON OPTIONAL FEATURES

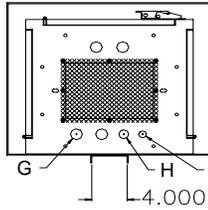
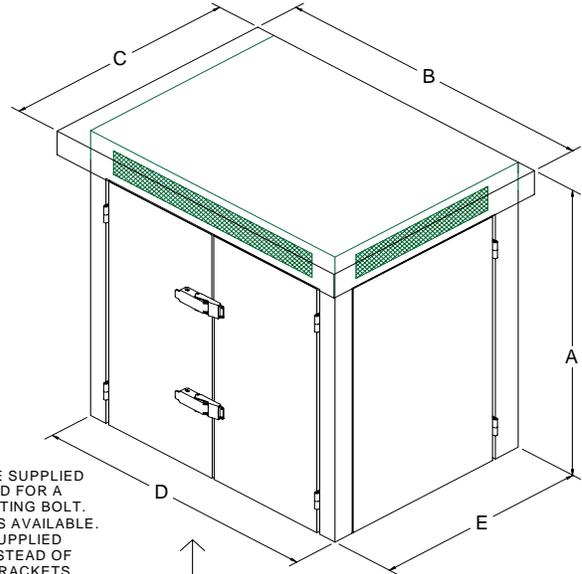
- A - ALARM CIRCUIT \*\*
- B - BASE MOUNTING LEGS (12" Typical) \*\*
- C - COMMUNICATIONS FILTER (CAPACITOR / CHOKE)
- D - UPGRADED SCR DIODE VOLTAGE (PIV) RATING
- E - EFFICIENCY FILTER (CHOKE)
- F - NON-STANDARD ENCLOSURE FINISH \*\*
- G - GFI CONVENIENCE OUTLET \*\*
- I - INTERRUPTER CIRCUIT
- J - NON-STANDARD AC INPUT FREQUENCY (50 Hz.)
- L - NON-STANDARD DC LUG TERMINALS \*\*
- M - EXTRA RECTIFIER METER \*\*
- N - AUXILIARY NEGATIVE OUTPUT CIRCUIT \*\*
- O - METER SWITCH \*\*
- P - AUXILIARY POSITIVE OUTPUT CIRCUIT \*\*
- Q - NON-STANDARD ADJUSTMENT METHOD \*\*
- R - POTENTIAL METER (included in potential control units)
- Y - SPECIAL TEST, DOCUMENT OR LABEL REQUIREMENT
- Z - NON-LISTED OPTIONAL FEATURE (consult factory)

\*\* - Option details available on Website: [www.irrectifier.com](http://www.irrectifier.com)

TYPICAL A-2 OR A-3 SIZE ENCLOSURE



TYPICAL A-4 SIZE ENCLOSURE



NOTE: A-2 & A-3 ENCLOSURES ARE SUPPLIED WITH (2) KEYHOLES SIZED FOR A MAXIMUM 5/8 (0.625") MOUNTING BOLT. OPTIONAL BASE MOUNTING IS AVAILABLE. A-4 ENCLOSURES ARE SUPPLIED WITH BASE MOUNTING INSTEAD OF WALL / POLE MOUNTING BRACKETS.

ENCL. SIZE	ENCLOSURE DIMENSIONS (")								
	A	B	C	D	E	F	G	H	I
A-2	26.625	23.25	19.25	19.00	17.00	30.50	1.375 (4) 1" KO	1.125 (1) 3/4" KO	0.875 (1) 1/2" KO
A-3	32.625	26.25	24.25	22.00	22.00	36.50	1.375 (4) 1" KO	1.125 (1) 3/4" KO	0.875 (1) 1/2" KO
A-4	36.00	36.25	26.25	32.00	24.00	N/A	1.984 (4) 1 1/2" KO	1.375 (1) 1" KO	1.125 (1) 3/4" KO