

Benchmark Series Cathodic Protection Rectifier



■ INTEGRATED
RECTIFIER TECHNOLOGIES INC.

The **IRT Benchmark Series** is designed and manufactured with high quality materials to provide reliability and longevity in protecting industry assets and our environment.

This series is an economical option for CP applications requiring only basic features and lower rectifier DC output ratings. This series can also be customized for multi-zone type CP applications.

STANDARD FEATURES

- Type 3R enclosure; with powder coated 14 gauge mill galvanized steel construction (other gauges, materials and finishes optional); stainless steel hardware; single lockable door; wall, frame or flat post mounting (base mounting optional for the B-3 size and larger rectifier enclosures only)
- Removable chassis panel construction
- Electrical hardware is brass or copper with electroless nickel plated finish
- Electrical connections are double-nutted
- Single phase AC input (three-phase input optional)
- Magnetic trip AC input circuit breaker(s)



- Class H transformer with over capacity design
- 25 steps of tap terminal block output adjustment (additional tap steps optional)
- AC secondary high speed fusing with spares (additional fusing and/or circuit breakers optional)
- Silicon diode rectification bridge with surge protection
- Single 3½" analog DC output meter; switched for volts and amps (+/- 2% accuracy) (digital meters optional)
- AC and DC surge protection (higher energy protection optional and recommended for lightning prone areas)
- Operating ambient: -50° to +45°C (-58° to +113°F)
- NRTL electrical approval (CSA/US, Intertek/ETL)
- Numerous optional features available for customization

Products to protect your assets and our environment!

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RECTIFIER TECHNOLOGIES INC.

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Benchmark Series Model Coding and Enclosure Dimensions

BMASAS 40-16M

BENCHMARK LINE MODEL

AIR-COOLED TYPE

SILICON RECTIFIER TYPE

AC INPUT

A - 115 VAC F - 115/230 VAC
B - 208 VAC G - 230/460 VAC
C - 230 VAC
D - 416 VAC
E - 460 VAC

AC PHASE

S - SINGLE PHASE

DC VOLTAGE RATING

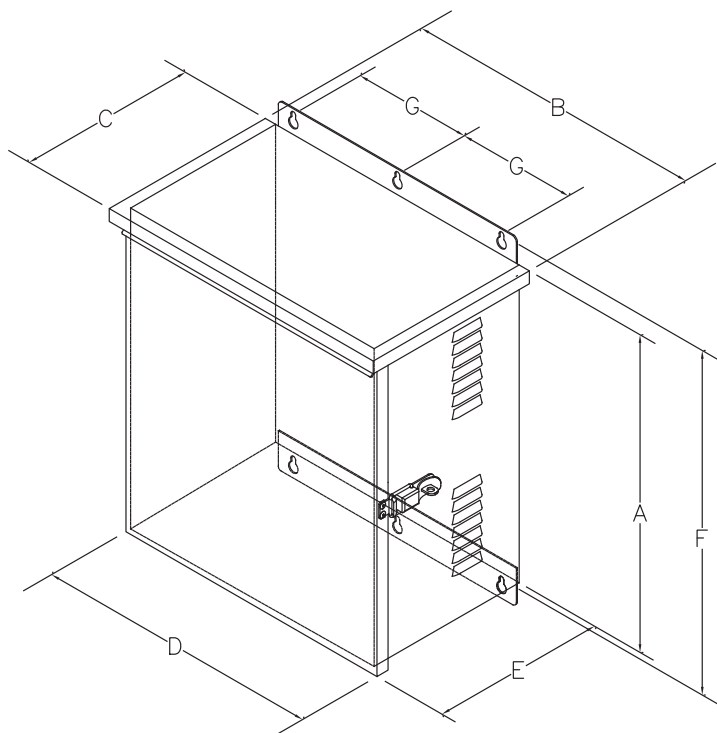
DC CURRENT RATING

COMMON OPTIONAL FEATURES

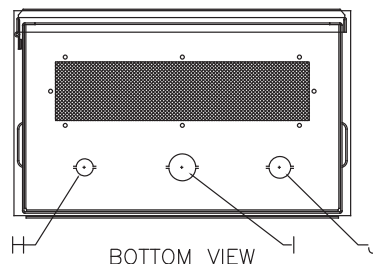
A - ALARM CIRCUIT
D - UPGRADED DIODE VOLTAGE (PIV) RATING
E - EFFICIENCY FILTER (CHOKE)
G - GFI CONVENIENCE OUTLET
I - INTERRUPTER CIRCUIT
J - NON-STANDARD AC INPUT FREQUENCY (50 Hz.)
L - EXTRA DC OUTPUT LUG TERMINALS
M - EXTRA DC OUTPUT METER
N - AUXILIARY NEGATIVE OUTPUT CIRCUIT
O_b - SEALED METER SWITCH
P - AUXILIARY POSITIVE OUTPUT CIRCUIT
R - POTENTIAL METER
S - NON-STANDARD SURGE PROTECTION (AC or DC)
Y - SPECIAL TEST, DOCUMENT OR LABEL REQUIREMENT
Z - NON-LISTED OPTIONAL FEATURE (consult factory)

Option details available on our website: irtrectifier.com

TYPICAL B-1 OR B-2 SIZE ENCLOSURE



NOTE:
ENCLOSURES ARE SUPPLIED WITH
(6) KEYHOLES SIZED FOR A MAXIMUM
5/16 (0.313") MOUNTING BOLT (B-1) AND
3/8 (0.375") MOUNTING BOLT (B-2).



| ENCL. SIZE | Enclosure Dimensions (") | | | | | | | Conduit Knockout Size | | |
|---------------|--------------------------|--------|--------|--------|--------|--------|-------|-----------------------|---------------------|-----------------------|
| | A | B | C | D | E | F | G | H | I | J |
| B-1 | 18.625 | 17.250 | 10.500 | 16.875 | 10.000 | 20.250 | 7.000 | (1) 1/2KO (0.875") | (1) 1KO (1.375") | (1) 3/4KO (1.125") |
| B-2 | 28.375 | 20.750 | 13.000 | 20.500 | 12.250 | 29.625 | 7.000 | (1) 1/2KO (0.875") | (1) 1KO (1.375") | (1) 3/4KO (1.125") |

NOTE: For B-3, B-4 and B-5 enclosure details, consult with IRT factory.