

Cathodic Protection Rectifier Advantage Air Series:

Integrated Rectifier Technologies Advantage Series of rectifier provides a quality product with the intention to meet the requirements of our clients. Used in the majority of applications; this series has a multitude of options available.

Standard Features



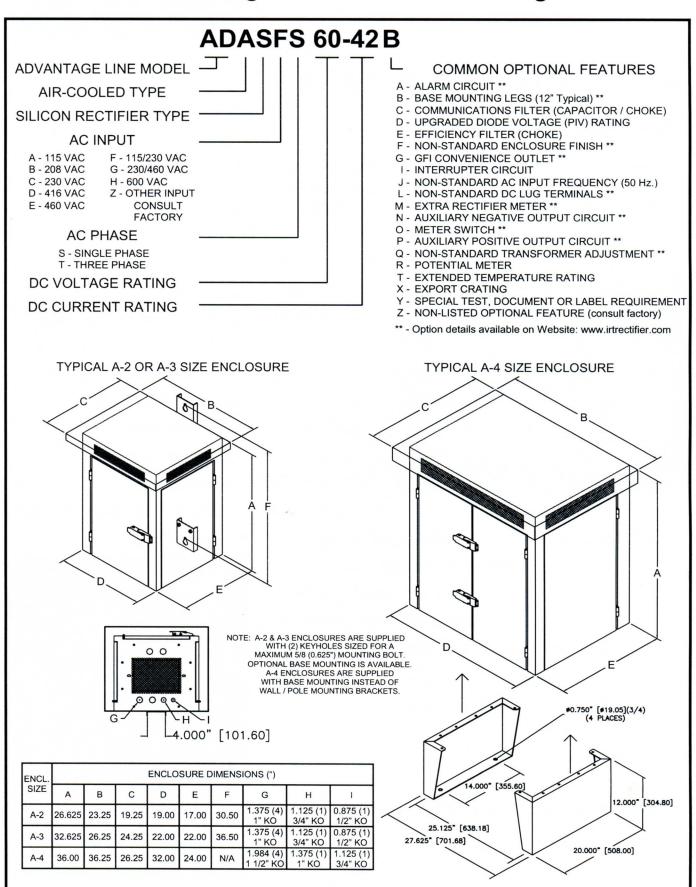
- Removable 3-door cabinet c/w slide out frame
- Nema 3R rated cabinet, lockable
- Available in 12 gauge polyester powder coated steel or 11 gauge hot dipped galvanized steel
- All cabinet hardware stainless steel, all brass/copper hardware has electroless nickel plated finish
- Available with pole / wall or base mounting bracket
- Single and three phase inputs available
- > 25 output steps, tap link bar adjustment
- > Transformer min. 95% efficient, Class H temperature rated
- Overload / short protection provided by fully magnetic trip circuit breaker and fusing
- Silicon diode rectification bridge c/w surge protection
- → 3½ " continuous readout DC metering, Accuracy +/- 2%
- > High energy AC and DC lightning protection on all rectifiers
- > -50 to +45 Celsius operating ambient
- One year Warranty
- > Full line of options available
- CSA approved

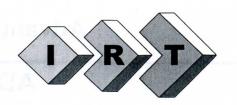
INTEGRATED RECTIFIER TECHNOLOGIES, INC.

15360 - 116 Avenue Edmonton, Alberta, Canada T5M 3Z6



Advantage Air Series Model Coding

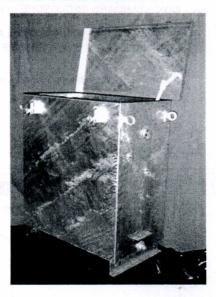




Cathodic Protection Rectifier Advantage Oil Series:

Integrated Rectifier Technologies Advantage Series of rectifier provides a quality product with the intention to meet the requirements of our clients. Used in harsh areas where a vented enclosure is not suitable; this series has a multitude of options available.

Standard Features



- > Welded frame chassis c/w eyebolts for lift out capabilities
- Nema 4 rated cabinet, lockable
- Available in 12 gauge polyester powder coated steel or 11 gauge hot dipped galvanized steel
- All cabinet hardware stainless steel, all brass/copper hardware has electroless nickel plated finish
- Available with base channel for floor or pad mounting
- Single and three phase inputs available, 50 hz optional
- Minimum 25 output steps, tap link bar adjustment
- > Transformer min. 95% efficient, Class H temperature rated
- Overload / short protection provided by fully magnetic trip circuit breaker and fusing
- > Silicon diode rectification bridge c/w surge protection
- > 3 ½ " continuous readout DC metering, Accuracy +/- 2%
- High energy AC and DC lightning protection on all rectifiers
- > -50 to +45 Celsius operating ambient
- One year Warranty
- Full line of options available
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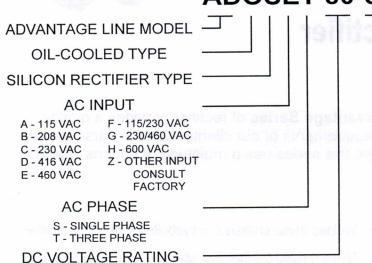
Phone: 780 447-1114 Fax: 780 454-0004



E-mail: sales@irtrectifier.com

Advantage Oil Series Model Coding

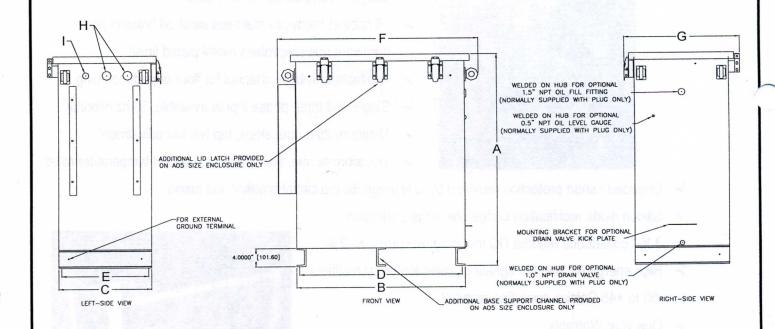
ADOSET 80-60 T



DC CURRENT RATING

COMMON OPTIONAL FEATURES

- A ALARM CIRCUIT **
- C COMMUNICATIONS FILTER (CAPACITOR / CHOKE)
- D UPGRADED DIODE VOLTAGE (PIV) RATING
- E EFFICIENCY FILTER (CHOKE)
- F NON-STANDARD ENCLOSURE FINISH **
- I INTERRUPTER CIRCUIT J - NON-STANDARD AC INPUT FREQUENCY (50 Hz.)
- L NON-STANDARD DC LUG TERMINALS **
- M EXTRA RECTIFIER METER **
- O METER SWITCH **
- Q NON-STANDARD TRANSFORMER ADJUSTMENT **
- R POTENTIAL METER
- T EXTENDED TEMPERATURE RATING
- W NON-STANDARD ENCLOSURE CONSTRUCTION **
- X EXPORT CRATING
- Y SPECIAL TEST, DOCUMENT OR LABEL REQUIREMENT
- Z NON-LISTED OPTIONAL FEATURE (consult factory)
- ** Option details available on Website: www.irtrectifier.com



ENCL. SIZE	OIL CAPACITY		ENCLOSURE DIMENSIONS							CONDUIT KNOCKOUT SIZE	
	GALLONS	LITERS	Α	В	С	D	Е	F	G	Н	1
AO1	28.0	107.0	27.50	24.00	18.00	22.75	16.75	31.00	22.50	1.375 (2) 1" KO	1.125 (1) 3/4" KO
AO2	55.0	207.0	36.50	30.00	20.00	28.75	18.50	37.00	24.50	1.984 (2) 1 1/2" KO	1.375 (1) 1" KO
AO3	97.0	367.0	46.50	36.00	20.00	34.75	18.50	43.00	24.50	1.984 (2) 1 1/2" KO	1.375 (1) 1" KO
A04	196.0	742.0	50.50	54.00	24.00	52.75	22.75	61.00	28.50	1.984 (2) 1 1/2" KO	1.375 (1) 1" KO
AO5	306.0	1158.0	50.50	72.00	28.00	70.75	26.75	79.00	32.50	1.984 (2) 1 1/2" KO	1.375 (1) 1" KO



Cathodic Protection Rectifier C.P. Sentinel Aqua-Line:

Integrated Rectifier Technologies C.P. Sentinel Aqua-Line rectifiers provide the precise control requirements needed in today's waterworks applications. Utilizing the state of the art SENTRY CONTROLLER™, the C.P. Sentinel Aqua-line units deliver unmatched performance and features to the water and wastewater industries.

Standard Features



- "Touch-Safe" hinged instrument panel segregates operator functions from "live" rectifier components
- > NEMA 4X. FRP enclosure with stainless steel hardware
- Lightweight, powder coated aluminum instrument panel and chassis
- > Fully automatic, IR-Free control of C.P. system potential
- ➤ Potential control accuracy within ±5 mV of set point
- ➤ Current & Voltage control within ±1% of set points
- Automatic Potential, Current & Voltage Mode operation with seamless, automatic transfer between operational modes
- Reference Cell input resistance > 20 Meg-Ohms
- > LED status indication for operating mode and controller power
- Innovative "anti-spiking" circuitry prevents current overshoot during current interrupt mode
- Manual mode operation: DC output is adjusted via 25 steps of transformer taps exclusive of controller circuit
- > SCR / Diode rectification module with surge protection
- > Transformer: min. 95% efficient, Class "H" rated
- Overload / short-circuit protection by fully magnetic circuit breaker including AC secondary & DC output fusing
- > 3½ digit, high intensity LED metering, accuracy ±0.2%
- High energy AC & DC surge & lightning protection
- > -40 to +50°C (-40 to 122°F) operating ambient
- ➤ Operating humidity range: 0 100%
- ➤ SENTRY CONTROLLER™ maintains protection criteria required by AWWA Standard D104-97
- > One year Warranty
- CSA approved



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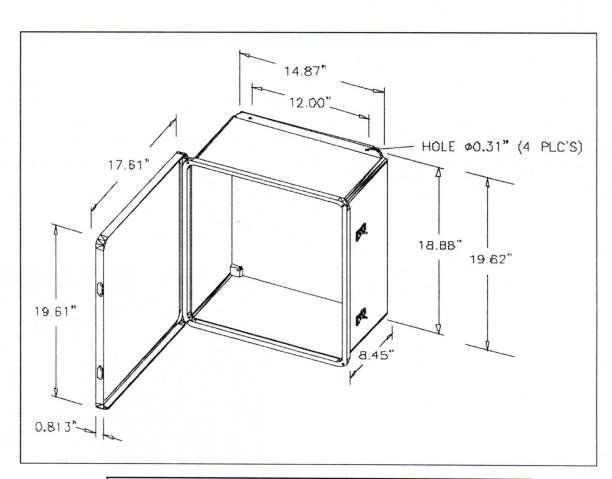
Phone: 780 447-1114 Fax: 780 454-0004 E-mail: sales@irtrectifier.com

C.P. Sentinel Aqua-Line Model Coding

CAASAS 30-16 AbP C.P. SENTINEL AQUALINE AIR-COOLED TYPE SILICON RECTIFIER TYPE AC INPUT A - 115 VAC OPTIONAL INPUTS (CONSULT FACTORY) S - SINGLE PHASE DC VOLTAGE RATING DC CURRENT RATING

COMMON OPTIONAL FEATURES

- $\boldsymbol{A_b}$ POTENTIAL MONITOR ALARM CIRCUIT WITH DOOR MOUNTED LED ALARM LAMPS
- D UPGRADED SCR DIODE VOLTAGE (PIV) RATING
- F UV RESISTANT SOLARGUARD™ FRP CABINET
- J NON-STANDARD AC INPUT FREQUENCY (50 Hz.)
- P AUXILIARY POSITIVE OUTPUT CIRCUIT c/w 5 OHM 100 WATT RHEOSTAT
- W SPECIAL ENCLOSURE CONSTRUCTION



STANDARD CP SENTINEL Aqua-Line MODELS & RATINGS						
MODEL NUMBER	VOLTAGE	CURRENT				
CAASAS 20-5	20 VOLTS	5 AMPERES				
CAASAS 30-8	30 VOLTS	8 AMPERES				
CAASAS 30-16	30 VOLTS	16 AMPERES				