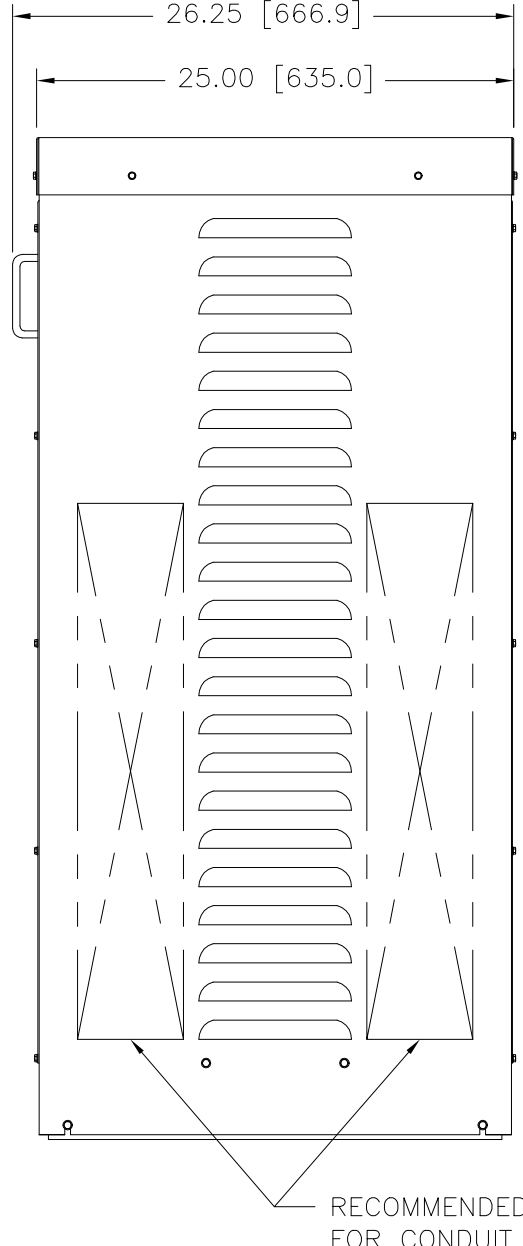
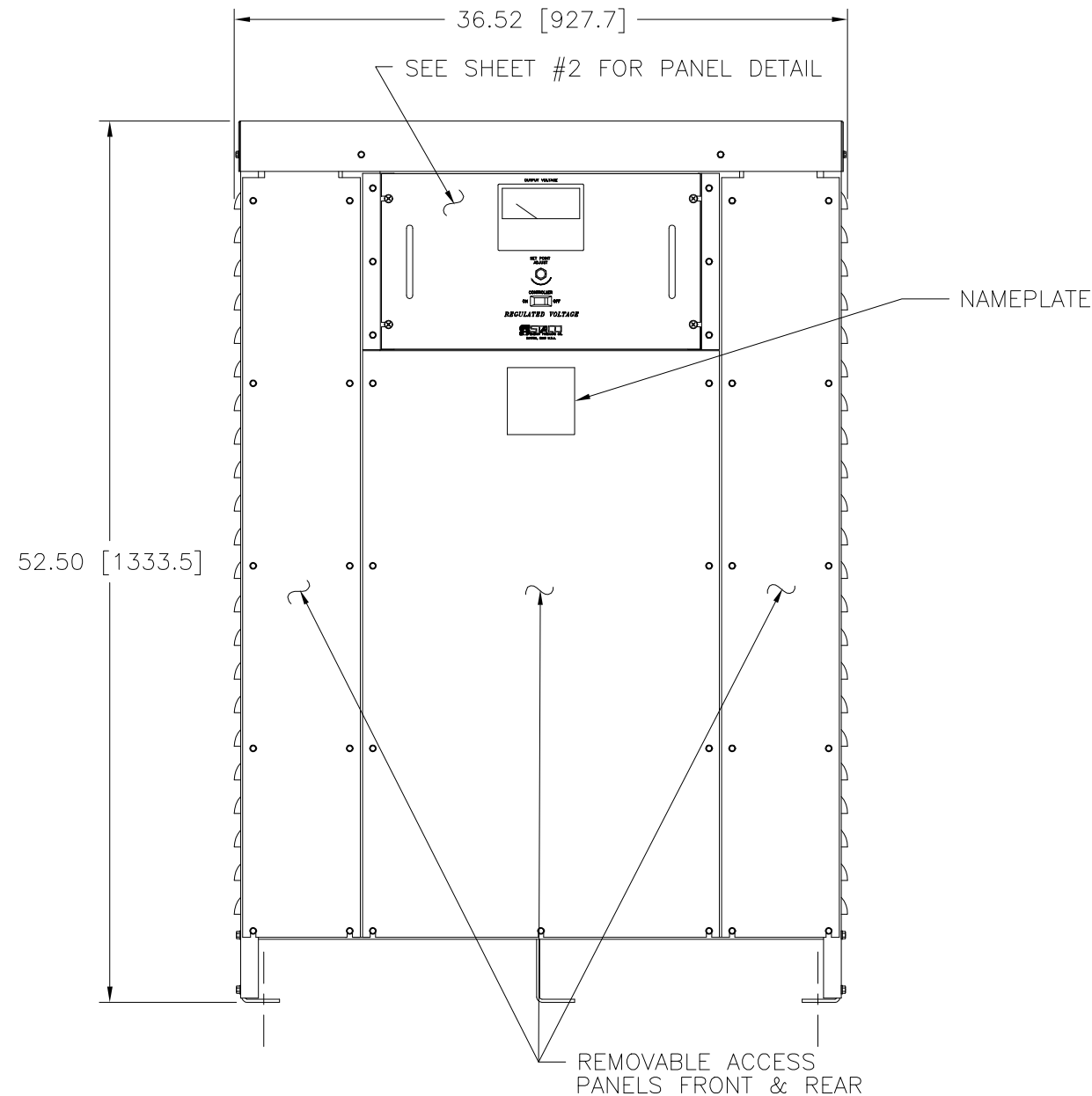
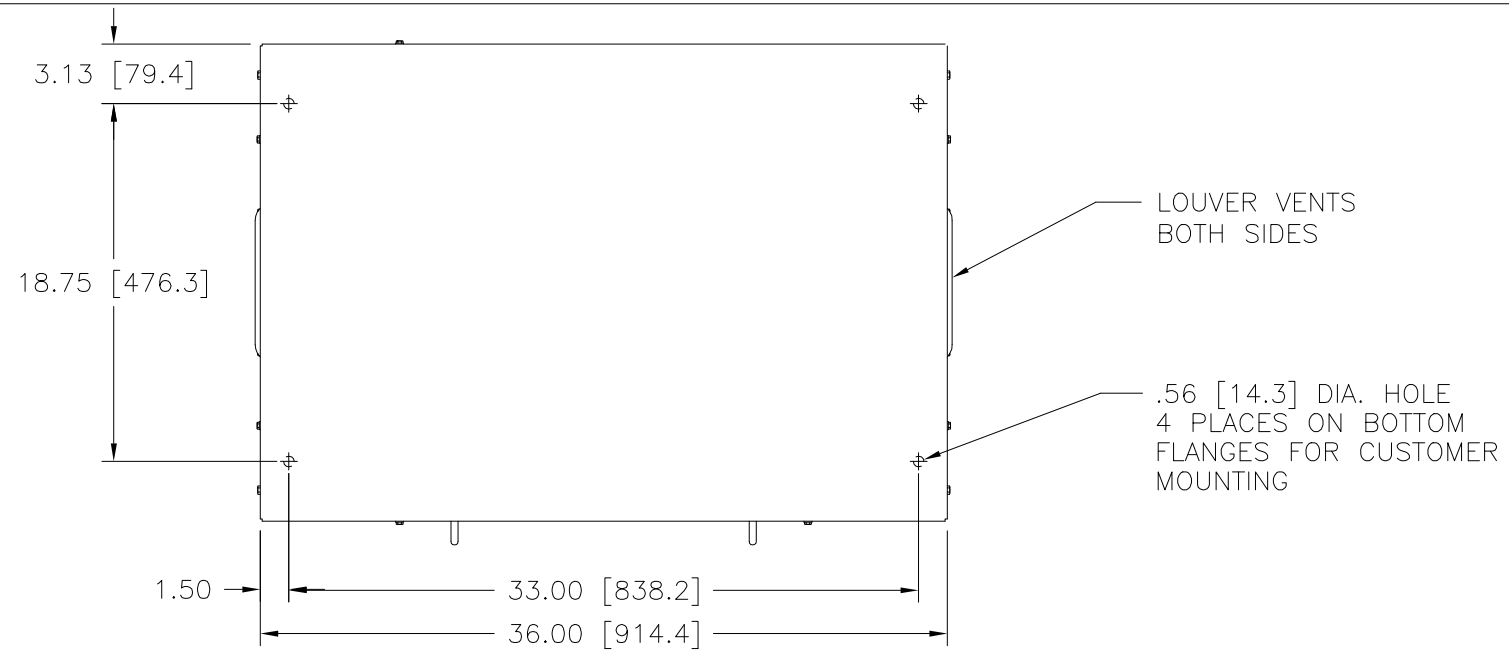


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THE REGULATOR COMPRISES A MOTOR-DRIVEN VARIABLE AUTOTRANSFORMER, THREE BUCK-BOOST FIXED RATIO TRANSFORMERS AND A SOLID STATE CONTROL UNIT THAT AUTOMATICALLY POSITIONS THE AUTOTRANSFORMER TO HOLD THE OUTPUT VOLTAGE CONSTANT.

SPECIFICATIONS:

| | | |
|---------------------|-----------|-----------------------------|
| WAVEFORM DISTORTION | - - - - - | ZERO |
| FREQUENCY RANGE | - - - - - | 57 HZ TO 63 HZ |
| ACCURACY | - - - - - | ±1% |
| INTERNAL IMPEDANCE | - - - - - | LESS THAN 1% |
| CORRECTION RATE | - - - - - | 13 VOLTS/SECONDS |
| PHASE SHIFT | - - - - - | NEGLIGIBLE |
| EFFICIENCY | - - - - - | 99% TYPICAL |
| TEMPERATURE RANGE | - - - - - | 0°C (32°F) TO +40°C (104°F) |

WIRE RANGES FOR CUSTOMER WIRING:

INPUT/OUTPUT/NEUTRAL TERMINALS: (1) (350MCM-#6 AWG) COMPRESSION PER PHASE
GROUND TERMINAL: (1) (1/0-#14 AWG) COMPRESSION

CONTROLS:

- CONTROLLER ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER TO THE CONTROLLER ONLY.
- SET POINT ADJUSTMENT: THIS POTENTIOMETER CONTROL IS ROTATED CLOCKWISE TO INCREASE OUTPUT VOLTAGE SET POINT AND COUNTERCLOCKWISE TO DECREASE THE OUTPUT VOLTAGE SET POINT.
- VOLTMETER: THE ANALOG VOLTMETER INDICATES THE REGULATED OUTPUT VOLTAGE.
- RAISE/LOWER SWITCH: THIS SWITCH IS LOCATED INTERNALLY AND IS ACCESSIBLE FROM THE FRONT VIA THE REMOVABLE ACCESS PANEL. THE SWITCH ALLOWS FOR REGULATOR TO BE MANUALLY CONTROLLED.

* AT NOMINAL OUTPUT VOLTAGE INPUT VOLTAGE RANGE SHIFTS PROPORTIONALLY WITH OUTPUT VOLTAGE SETTINGS.

| | | | |
|---|-----------------------|---|--------------------|
| THREE PHASE (SINGLE LINE CONTROL) 60 HZ | | | |
| OUTPUT VOLTAGE (ADJUSTMENT) | INPUT VOLTAGE RANGE * | MAXIMUM OUTPUT AMPERES | RATED OUTPUT (KVA) |
| 220Y/127 | 176-242 | 130 | 50 |
| UNLESS OTHERWISE SPECIFIED, TOLERANCE IS # DECIMALS .XX .494 .12 .002 HOLES ANGLES DRAFT 1° 1-1/2° UNITS IN [mm] | | TITLE: SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR TYPE: AVR-25WCSY050 | |
| MATERIAL: ALL DIMENSIONS APPLY AFTER PLATING | | DRAWN BY: TIM RAU DATE: 11/1/00 FIRST USED ON: DO NOT SCALE DWG. CUSTOMER APPROVAL: DATE: | |
| The information and design disclosed herein was originated by and is the property of STACO ENERGY PRODUCTS CO., which reserves all patent, proprietary, design, manufacturing, reproduction, use and sale rights thereto, and to any article disclosed therein except to the extent rights are expressly granted to others. The foregoing does not apply to vendor proprietary parts. | | CHECKER: DATE: WEIGHT APPROX. CODE IDENT. NO. 83008 DWG. NO. 095-3113 | DWG. NO. 095-3113 |
| | | ENGINEER: DATE: SCALE: .2=1 SHEET 1 OF 2 | DWG. NO. 095-3113 |