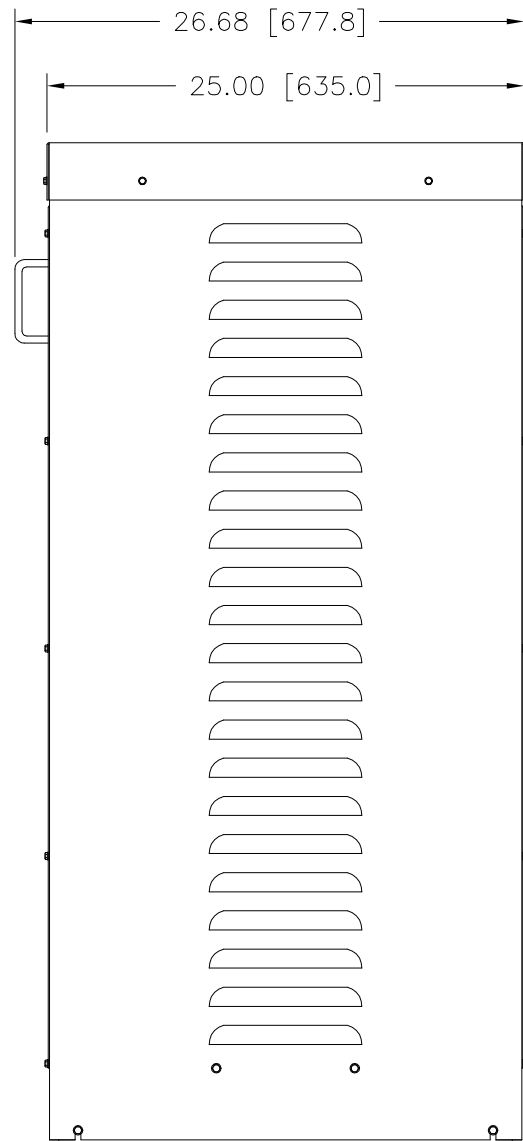
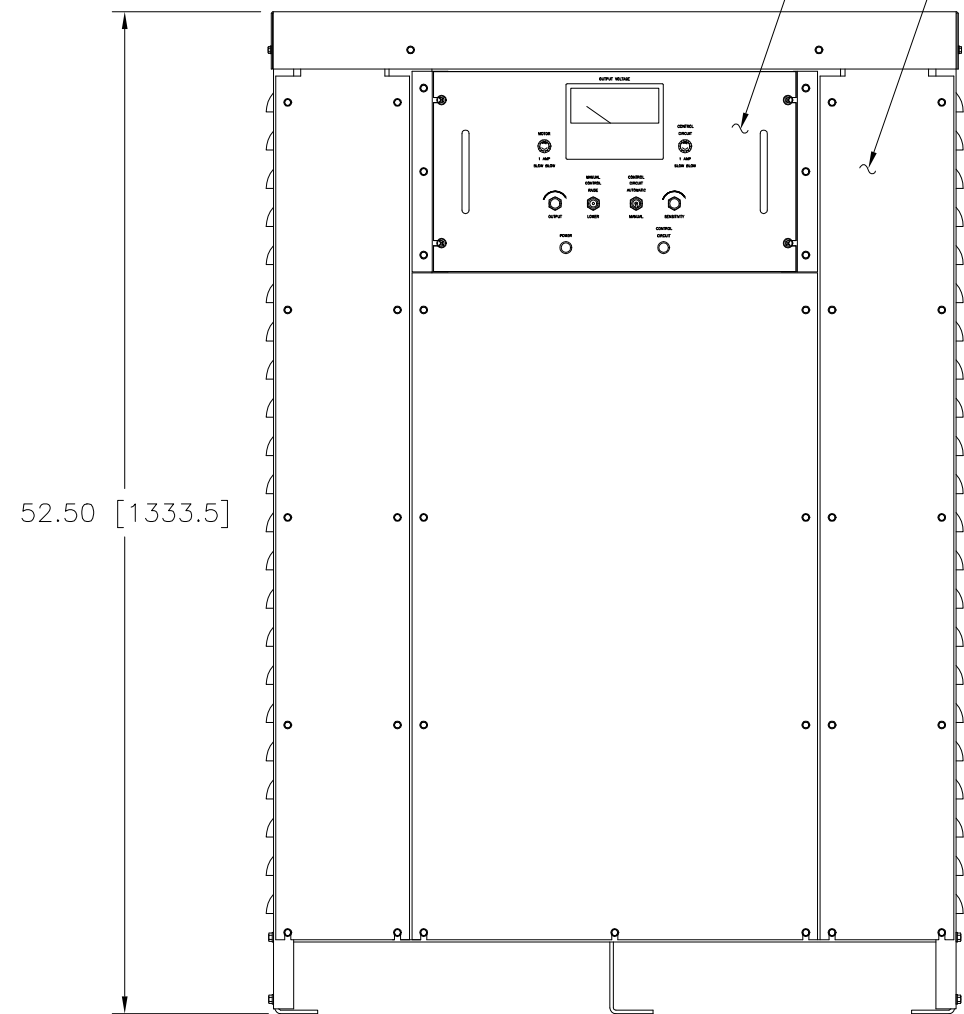


(4) HOLES FOR .50 [12.7] DIA. FASTENERS AT MTG. BASE FLANGES - FOR CUSTOMER USE

REMOVABLE ACCESS PANELS FRONT & REAR

SEE SHEET #2 FOR PANEL DETAIL



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. A STANDARD ANALOG VOLTMETER IS PROVIDED.

SPECIFICATIONS

WAVEFORM DISTORTION - - - - - ZERO
 FREQUENCY RANGE - - - - - 57 HZ TO 63 HZ
 ACCURACY - - - - - ± 1%
 INTERNAL IMPEDANCE - - - - - EXTREMELY LOW
 CORRECTION RATE - - - - - 12 VOLTS/SECOND
 PHASE SHIFT - - - - - NEGLIGIBLE
 EFFICIENCY - - - - - APPROXIMATELY 99%
 TEMPERATURE RANGE - - - - - 20°C (-4°F) TO +50°C (122°F)

CONTROLS

SENSITIVITY ADJUSTMENT: THIS CONTROL IS USED TO SET THE GAIN OF THE CONTROL SERVO SO THAT THE VOLTAGE REGULATOR OPERATES BELOW THE POINT OF OSCILLATION.

OUTPUT ADJUSTMENT: THIS POTENTIOMETER CONTROL IS ROTATED CLOCKWISE TO INCREASE OUTPUT VOLTAGE SET POINT AND COUNTERCLOCKWISE TO DECREASE THE OUTPUT VOLTAGE SET POINT.

CONTROL CIRCUIT SWITCH; MANUAL-AUTOMATIC: THIS SWITCH PROVIDES FOR EITHER AUTOMATIC CONTROL OF THE OUTPUT VOLTAGE OR MANUAL CONTROL. WHEN PLACED IN THE "AUTOMATIC" POSITION, THE UNIT OPERATES TO "AUTOMATICALLY" MAINTAIN THE PRESET OUTPUT VOLTAGE. WHEN PLACED IN "MANUAL" POSITION, THE CONTROL UNIT IS DISABLED, AND THE OUTPUT VOLTAGE CAN BE CONTROLLED BY THE MANUAL CONTROL SWITCH. THE OUTPUT VOLTAGE WILL NOT BE REGULATED WHEN IN THIS POSITION.

MANUAL CONTROL SWITCH: THIS SWITCH ALLOWS MANUAL CONTROL OF THE OUTPUT VOLTAGE. IT IS A THREE POSITION, MOMENTARY, CENTER OFF SWITCH AND WHEN PLACED IN EITHER THE RAISE OR LOWER POSITION, WILL CAUSE A CORRESPONDING CHANGE IN THE OUTPUT VOLTAGE.

** 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)
208/120	166-229	125	45

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS # DECIMALS .XX .12 .002 ANGLES 1° DRAFT 1-1/2" UNITS IN [mm]

MATERIAL: ALL DIMENSIONS APPLY AFTER PLATING

TITLE: SPEC. CONTROL DRAWING AUTO. VOLTAGE REGULATOR TYPE: AVR-20WCSY045

STACO ENERGY PRODUCTS CO. DAYTON, OHIO U.S.A.

DRAWN BY	DATE	FIRST USED ON	DO NOT SCALE DWG.	CUSTOMER APPROVAL	DATE
TIM RAU	1/24/96				
CHECKER	DATE	WEIGHT APPROX.	CODE IDENT. NO. 83008	DWG. NO.	
ENGINEER	DATE	SCALE .2=1	SHEET 1 OF 2	D	095-1850