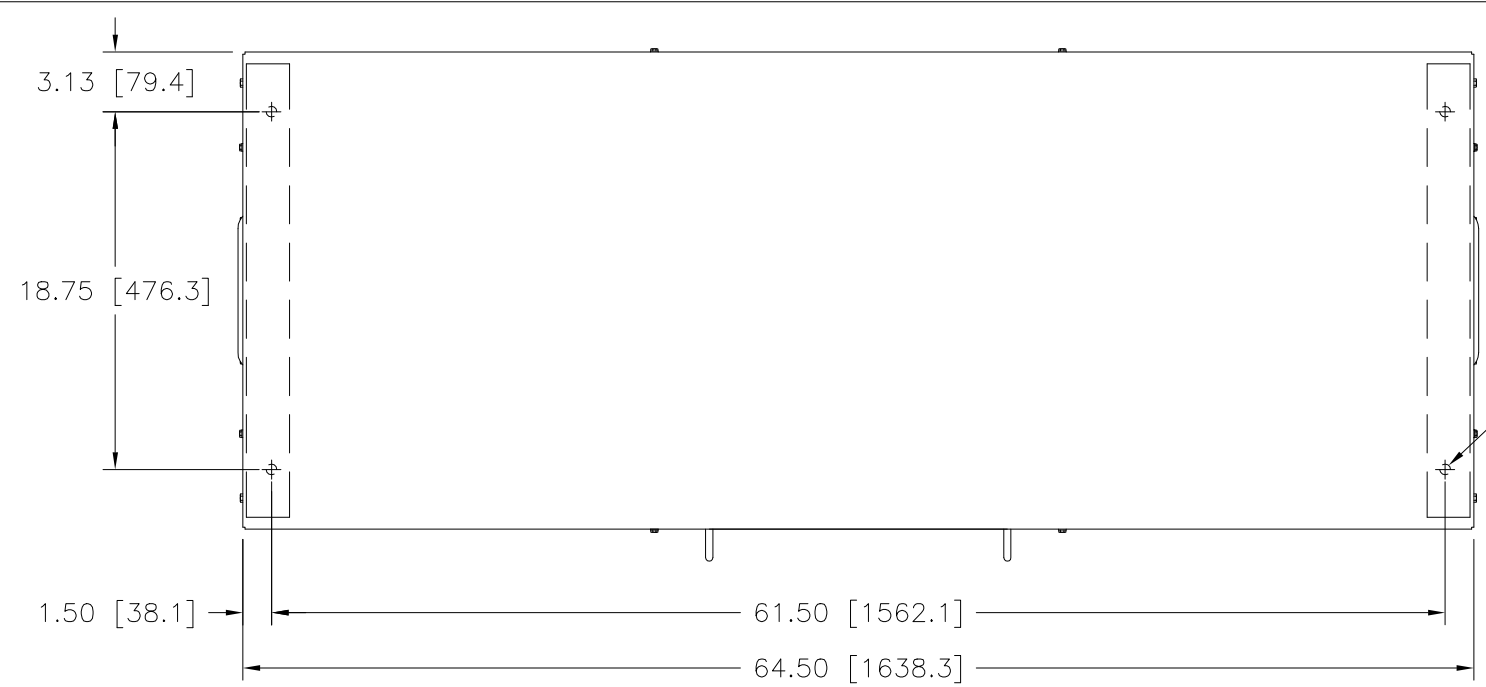
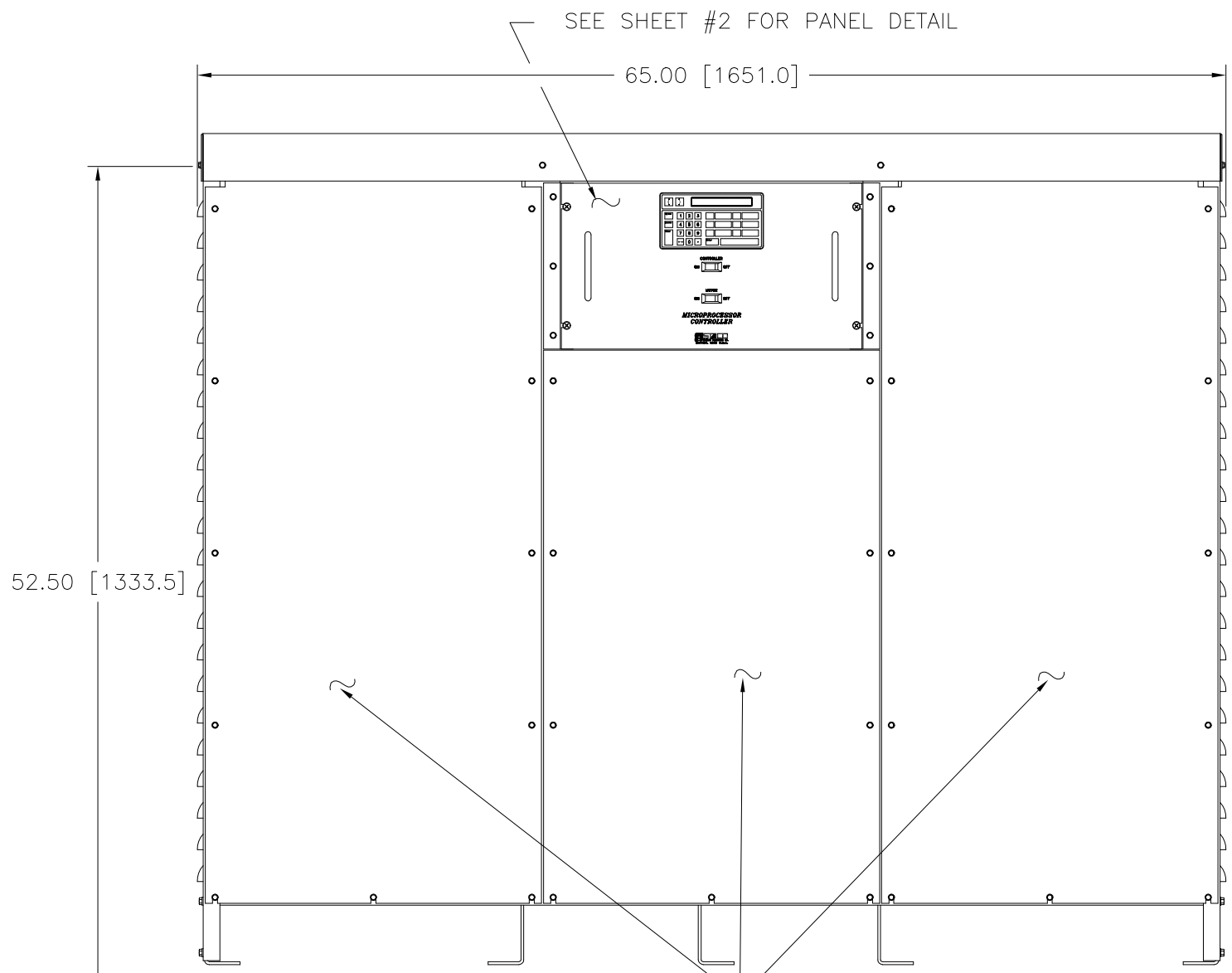


DWG. NO.	095-1823		
REVISIONS			
SYM.	E.C.N.	DATE	APVD.
A	23027	1/19/96	
REVISE & UPDATE			
B	23142	4/11/96	
REVISE & UPDATE			
C	23232	10/09/96	
REVISE & UPDATE			
D	23217	10/10/96	
REVISE & UPDATE			

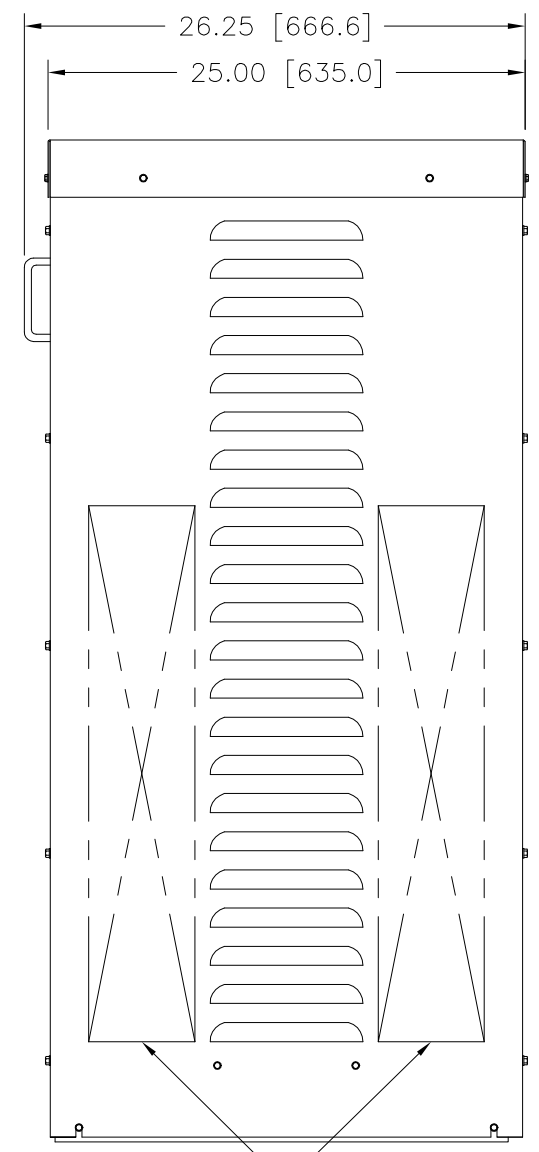
Go to [VARIAC.com](http://VARIAC.com)  
to purchase and for  
technical support.  
Made in the USA



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



REMOVABLE ACCESS PANELS FRONT & REAR  
RECOMMENDED AREAS FOR CONDUIT ENTRY.



EACH PHASE OF THE REGULATOR COMPRISES A MOTOR-DRIVEN VARIABLE AUTOTRANSFORMER, A BUCK-BOOST FIXED RATIO TRANSFORMER, AND A MANUAL RAISE/LOWER SWITCH. THE MICROPROCESSOR CONTROLLER AUTOMATICALLY POSITIONS EACH OF THE AUTOTRANSFORMERS TO HOLD THE OUTPUT VOLTAGE OF EACH PHASE CONSTANT. A RS-232 INTERFACE IS PROVIDED FOR REMOTE OPERATION AND MONITORING.

**SPECIFICATIONS:**

WAVEFORM DISTORTION	-----	ZERO
FREQUENCY RANGE	-----	57Hz TO 63Hz
OUTPUT REGULATION	-----	±1V
CONTROL BAND (USER SELECTABLE)	----	* ±0.5V, ±1.0V, ±2.0V, ±4.0V
CORRECTION RATE	-----	24 VOLTS/SECOND
INTERNAL IMPEDANCE	-----	EXTREMELY LOW
PHASE SHIFT	-----	NEGLIGIBLE
EFFICIENCY	-----	APPROXIMATELY 99%
TEMPERATURE RANGE	-----	0°C (32°F) TO +50°C (122°F)

\* FACTORY SET AT ±0.5V

**CONTROLS:**  
**MICROTERMINAL:** THE TERMINAL IS PROVIDED FOR LOCAL CONTROL OF THE UNIT WITH AN LCD DISPLAY FOR OUTPUT VOLTAGE READINGS. SEE THE MP USER'S HANDBOOK (FORM #003-1622) FOR DETAILED INFORMATION.  
**CONTROLLER ON/OFF SWITCH:** THIS SWITCH TURNS OFF POWER TO THE MICROPROCESSOR CONTROLLER ONLY.  
**MOTOR ON/OFF SWITCH:** THIS SWITCH TURNS OFF POWER FROM THE MICROPROCESSOR TO EACH OF THE AUTOTRANSFORMER MOTORS.  
**RAISE/LOWER SWITCHES:** THESE SWITCHES ARE LOCATED INTERNALLY AND ARE ACCESSIBLE FROM THE FRONT VIA THE REMOVABLE ACCESS PANEL. THE SWITCHES ALLOW FOR EACH PHASE OF THE REGULATOR TO BE MANUALLY CONTROLLED INDIVIDUALLY.

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

THREE PHASE (INDIVIDUAL LINE CONTROL)				
OUTPUT VOLTAGE (ADJUSTMENT)	INPUT VOLTAGE RANGE **	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)	HZ.
480Y/277	408-528	400	333	60
400Y/230	340-440	400	277	50

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS #		UNITS		TITLE: SPEC. CONTROL DRAWING	
DECIMALS	Holes	ANGLES	DRAFT	AUTO. VOLTAGE REGULATOR	
.XX	.12	1°	1-1/2°	TYPE: MVR-48TCIY333	
.XXX	.005			DRAWN BY: TIM RAU	
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING		DATE: 10/24/96	
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.		DRAWN BY: TIM RAU		FIRST USED ON: 10/24/96	
		CHECKER:		DO NOT SCALE DWG.	
		ENGINEER:		CUSTOMER APPROVAL: DATE:	
				SCALE: .2=1	
				SHEET 1 OF 2	
				DWG. NO. 095-1823	

