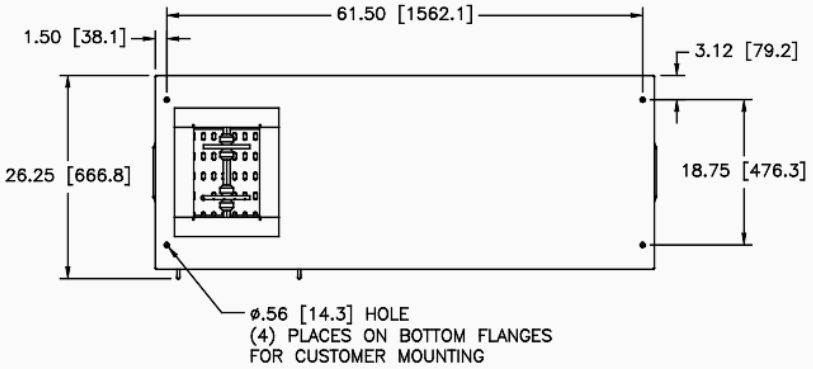
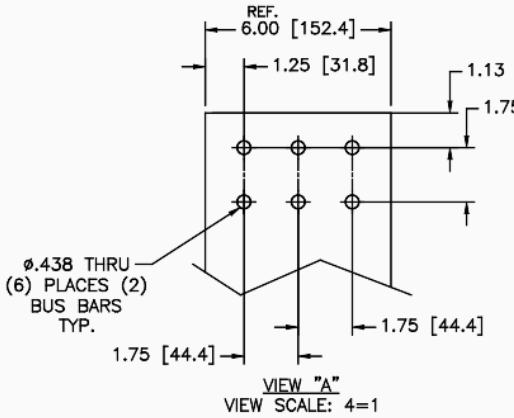
SIZE	DWG. NO.
D	094-6483

REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A		10/10/25	
		RELEASE TO PRODUCTION	

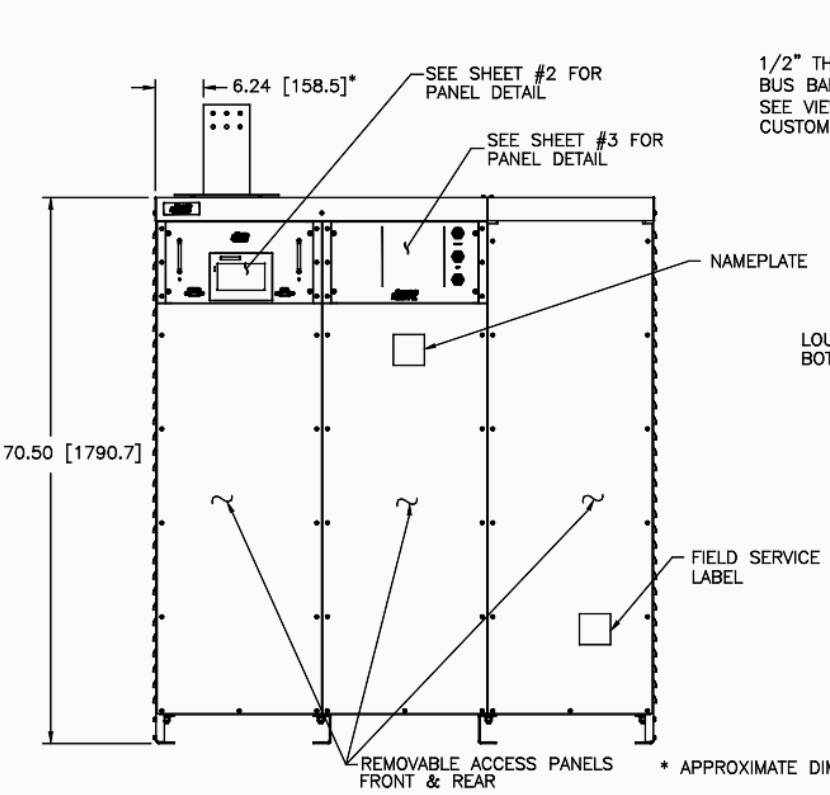


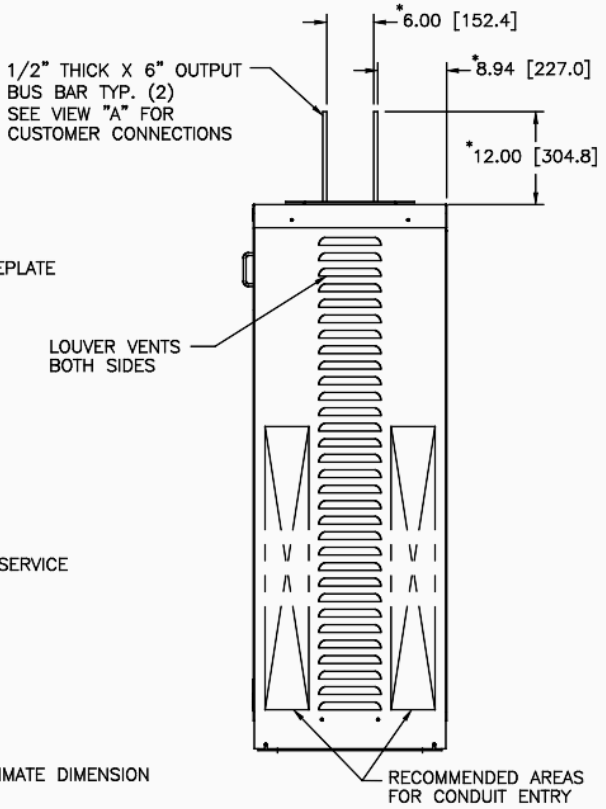


THE PROVIDER POWER SYSTEM (PPS) COMPRISES A MOTOR-DRIVEN VARIABLE AUTOTRANSFORMER, A SOFT START CIRCUIT WITH CONTROL PANEL, AN OUTPUT ISOLATION TRANSFORMER AND A MICROPROCESSOR CONTROLLER THAT AUTOMATICALLY POSITIONS THE AUTOTRANSFORMER TO HOLD THE OUTPUT CURRENT CONSTANT. THIS IS ACCOMPLISHED BY THE ADDITION OF A CURRENT MONTIORING SYSTEM CONSISTING OF A CURRENT TRANSFORMER AND TRANSDUCER (4-20mA SCALED FOR 6000 AMPS (AC)) PER PHASE USED FOR PROCESS CONTROL SET POINT. TERMINAL BLOCKS WILL BE PROVIDED TO HAVE THE CUSTOMER SUPPLIED 120V FOR THE CONTROLLER AND SOFT STARTER SYSTEMS.

SPECIFICATIONS:

WAVEFORM DISTORTION	ZERO
FREQUENCY RANGE	57 HZ TO 63 HZ
ACCURACY	±1%
INTERNAL IMPEDANCE	LESS THAN 1%
PHASE SHIFT	NEGLIGIBLE
EFFICIENCY	97% TYPICAL
TEMPERATURE RANGE	0°C (32°F) TO +40°C (104°F)
MOTOR SPEED	30 SECONDS





WIRE RANGES FOR CUSTOMER WIRING:
INPUT TERMINALS: (1) (350MCM - #6 AWG) COMPRESSION PER POLE - (2-WIRE)
GROUND TERMINAL: (2) (300 MCM - #6 AWG) COMPRESSION

OUTPUT TERMINALS: BUS BARS EXTENDING ABOVE THE ENCLOSURE ARE PROVIDED FOR CUSTOMER OUPUT CONNECTIONS. WIRING PROVISIONS ARE FOR UP TO (6) OUTPUT TERMINAL CONNECTIONS PER BUS BAR. REFER TO STACO DRAWING 853-0014 FOR TERMINAL RECOMMENDATIONS.

CONTROLS:
THE TERMINAL IS PROVIDED FOR LOCAL CONTROL OF THE UNIT WITH AN LCD DISPLAY FOR OUTPUT AMPERE READINGS. SEE MPX USERS HANDBOOK (FORM 003-2753) 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 THE AUTOTRANSFORMER MOTOR.

RAISE/LOWER SWITCH: THIS SWITCH IS LOCATED INTERNALLY. THE SWITCH ALLOWS THE VARIABLE TRANSFORMER TO BE MANUALLY CONTROLLED.

SOFT START CONTROL PANEL: WHEN THE "OUTPUT" PUSHBUTTON IS ACTUATED, THE INPUT SOFT START CONTACTOR CLOSES, PROVIDING A CURRENT LIMITING START. A DELAY TIMER IS ACTIVATED, DELAYING THE CLOSING OF THE FULL CURRENT CONTACTOR UNTIL SYSTEM TRANSFORMERS ARE ENERGIZED. AFTER TIMING OUT, THE POWER LIGHT ILLUMINATES AND THE FULL RATED INPUT CONTACTOR CLOSES. RELEASING THE "OUTPUT" PUSHBUTTON SWITCH OPENS THE SOFT START CONTACTOR CIRCUIT. THE "OFF" PUSHBUTTON WHEN ACTUATED, OPENS THE INPUT CONTACTOR, EXTINGUISHING THE PILOT LAMP AND REMOVING POWER TO THE PPS.

SINGLE PHASE (2-WIRE + GND) 60 HZ			
OUTPUT VOLTAGE	INPUT VOLTAGE	MAXIMUM OUTPUT AMPERES	RATED OUTPUT (KVA)
0-12	480	6000	72

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX .XXX	HOLES ANGLES	CHAMF. 1-1/2"	
MATERIAL:			
	USED IN [next]		
	ALL DRAWINGS APPLY		

TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM PPS-6483-1PHASE-6000

STACO ENERGY PRODUCTS CO.

DRAWN BY N.JONES	DATE 8/4/2025	FIRST USED ON	DO NOT SCALE DWG.	
ENGR. R.LIGHTLE	DATE	AGENCY APPROV.	CAGE CODE 83006	SIZE D
CHECKED L.BRAGG	DATE 08/29/25	SCALE N/A	SHEET 1 OF 4	DWG. NO. 094-6483

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SIZE	DWG. NO.	REV
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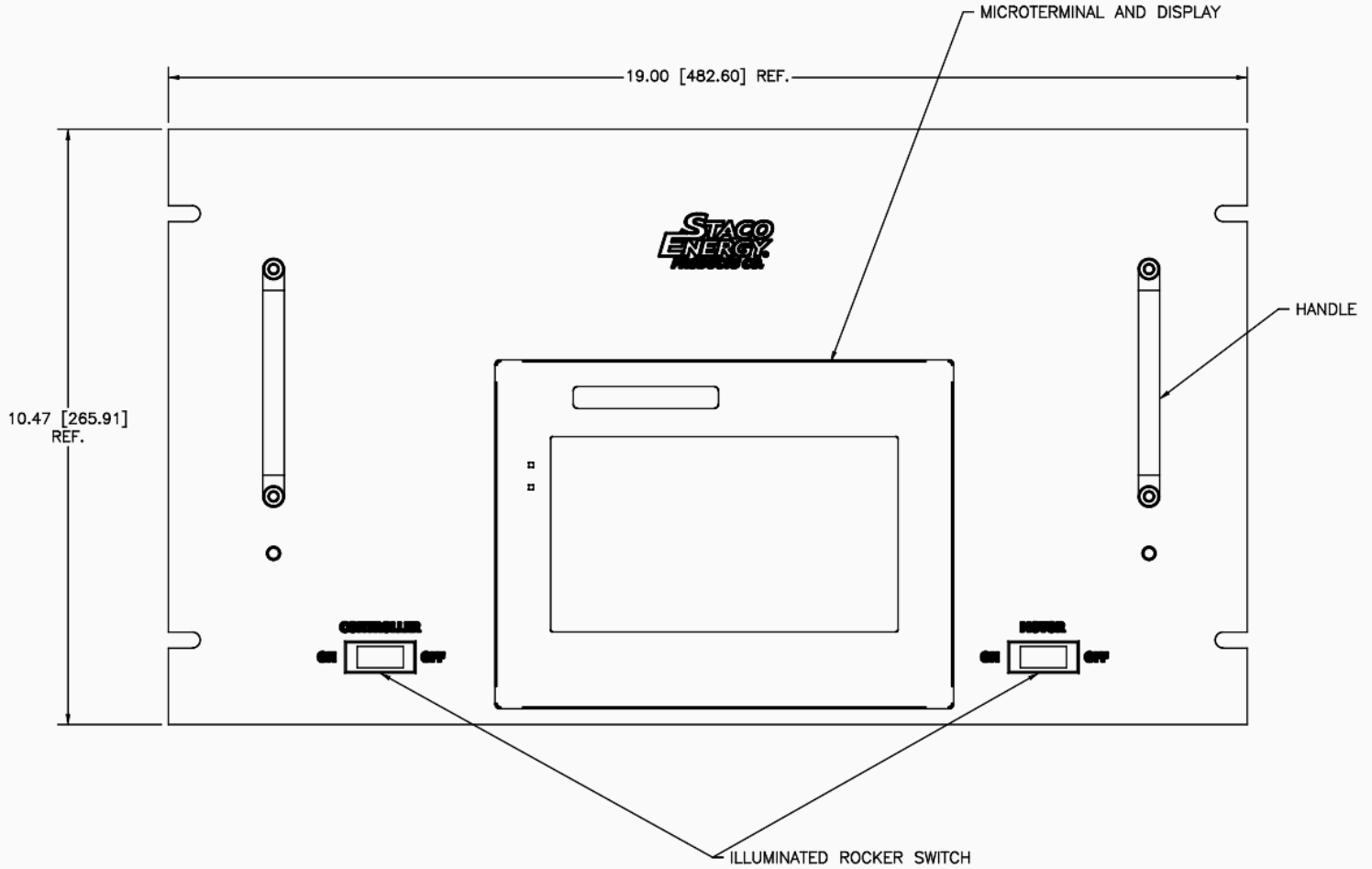
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A		10/10/25	
	RELEASE TO PRODUCTION		



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±	UNITS: in [mm]	TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM PPS-6483-1PHASE-6000
MATERIAL:	ALL DIMENSIONS APPLY AFTER PLATING	
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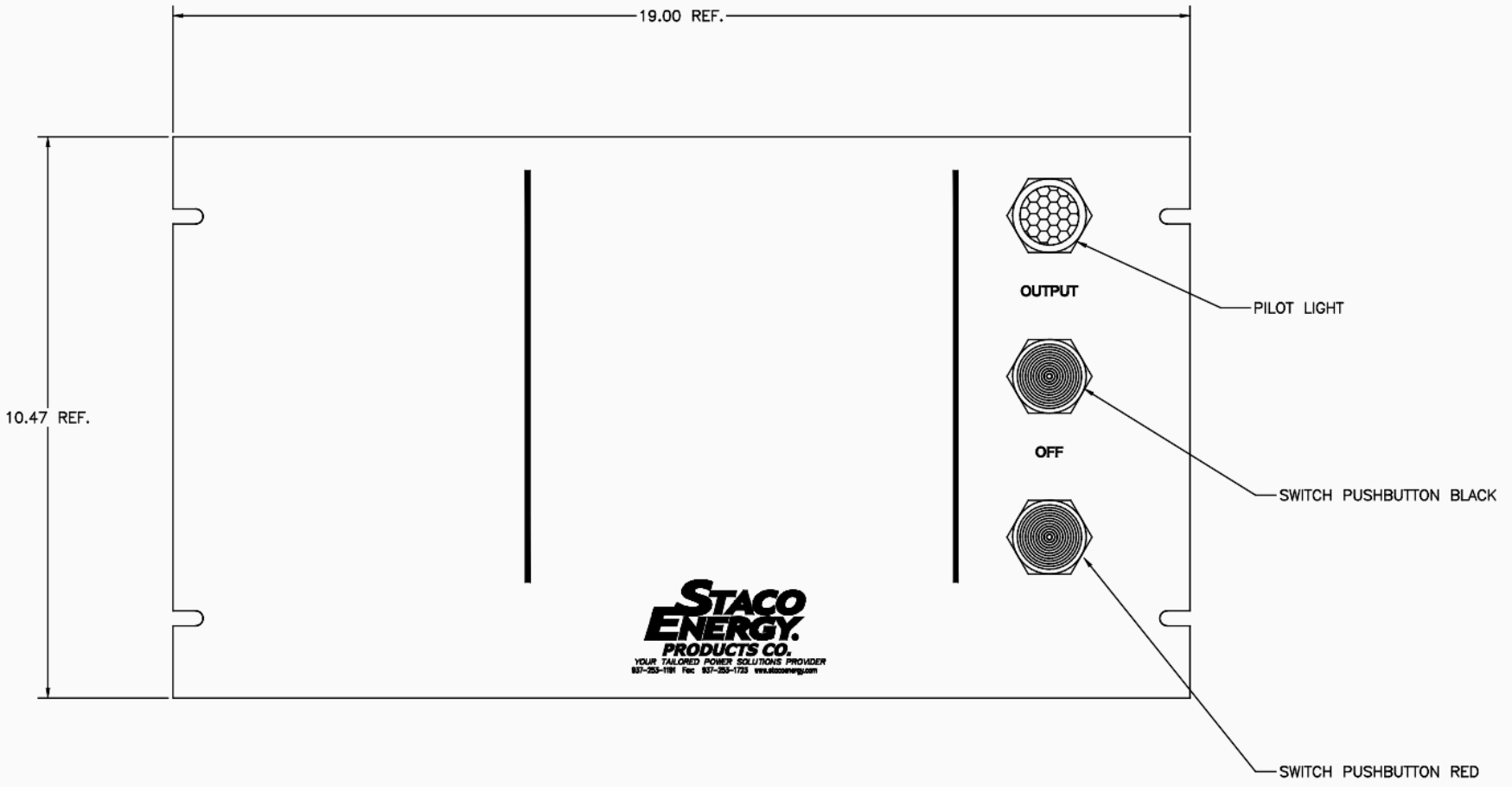
DRAWN BY: N.JONES	DATE: 8/4/2025	FIRST USED ON	DO NOT SCALE DWG.	STACO ENERGY PRODUCTS CO.
ENGINEER: L.BRAGG	DATE: 08/29/25	WEIGHT APPROX.	CAGE CODE: 83008	
CHECKED: L.BRAGG	DATE: 08/29/25	SCALE: N/A	SHEET 2 OF 4	SIZE: D DWG. NO.: 094-6483

SIZE	DWG. NO.
D	094-6483

REVISIONS

SHT.	ZONE	DATE	APVD.
A		10/10/25	

RELEASE TO PRODUCTION



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±
DECIMALS .XX ±.03 .XXX ±.010
HOLES ±0.005
ANGLES ±1°
DRILL 1-1/2"

UNITS in [mm]

ALL DIMENSIONS ARE AFTER PLATING

MATERIAL:

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TITLE: SPEC. CONTROL DRAWING
PROVIDER POWER SYSTEM
PPS-6483-1PHASE-6000

DRAWN BY	N.JONES	DATE	8/4/2025
ENGINEER	L.BRAGG	DATE	08/29/25
MANAGER	L.BRAGG	DATE	08/29/25

FIRST USED ON

WEIGHT APPROX.

SCALE N/A

DO NOT SCALE DWG.

CAGE CODE 53006

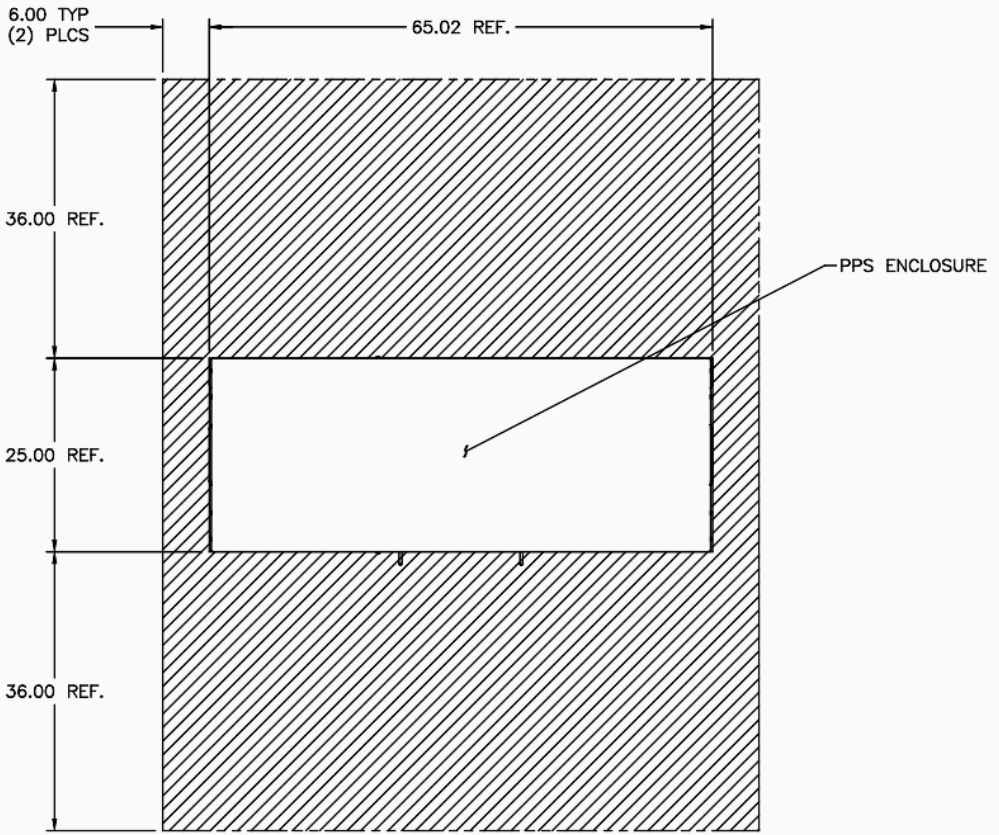
SHEET 3 OF 4

STACO ENERGY. PRODUCTS CO.
A Powerwise Group Company

SIZE	DWG. NO.
D	094-6483

SIZE	DWG. NO.
D	094-6483

REVISIONS			
REV.	E.C.O.	DATE	APVD.
A		10/10/25	
		RELEASE TO PRODUCTION	



NOTES:
SERVICE/VENTILATION CLEARANCES:
1. FRONT CLEARANCE: 36"
2. REAR CLEARANCE: 36"
3. TOP CLEARANCE: 24"
4. SIDE CLEARANCE 6"

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX .XXX HOLES .XX .XXX ANGLES 1° DIMENSIONS 1-1/2"

UNITS: in [mm]

MATERIAL: ALL DIMENSIONS ARE IN INCHES

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TITLE: SPEC. CONTROL DRAWING
PROVIDER POWER SYSTEM
PPS-6483-1PHASE-6000

DRAWN BY	N.JONES	DATE	8/4/2025
ENGINEER	L.BRAGG	DATE	08/29/25
CHECKED	L.BRAGG	DATE	08/29/25
FIRST USED ON		DO NOT SCALE DWG.	
WEIGHT APPROX.		CAGE CODE	83008
SCALE	N/A	SHEET 4 OF 4	

STACO ENERGY PRODUCTS CO.
A Segmentation and Control Technology Company
Solutions that Advance the Grid

SIZE	DWG. NO.
D	094-6483