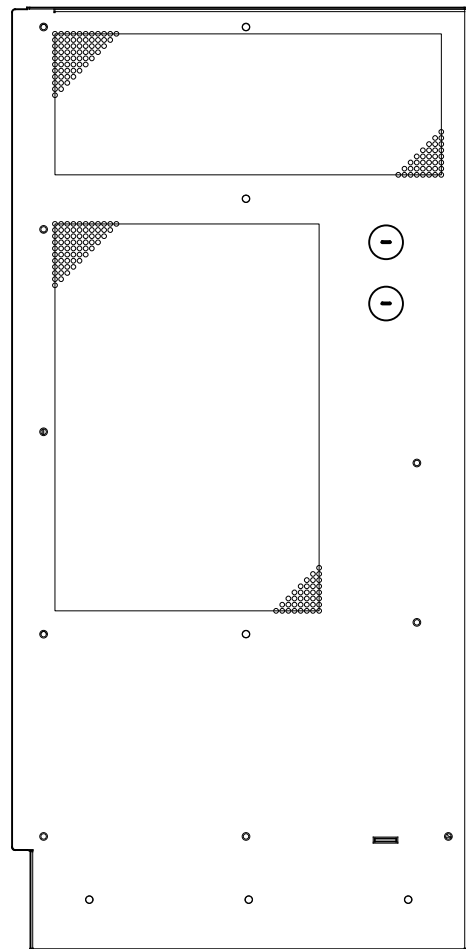
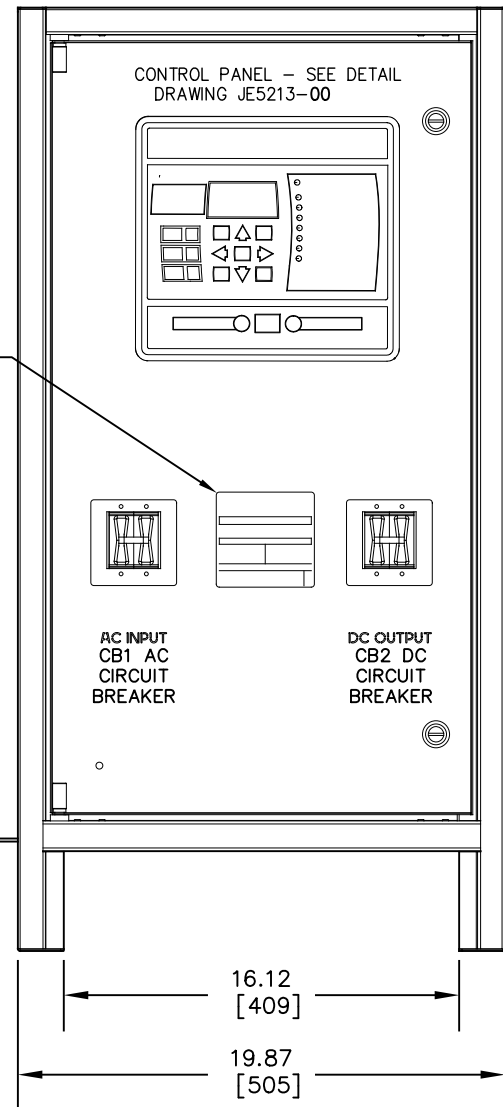


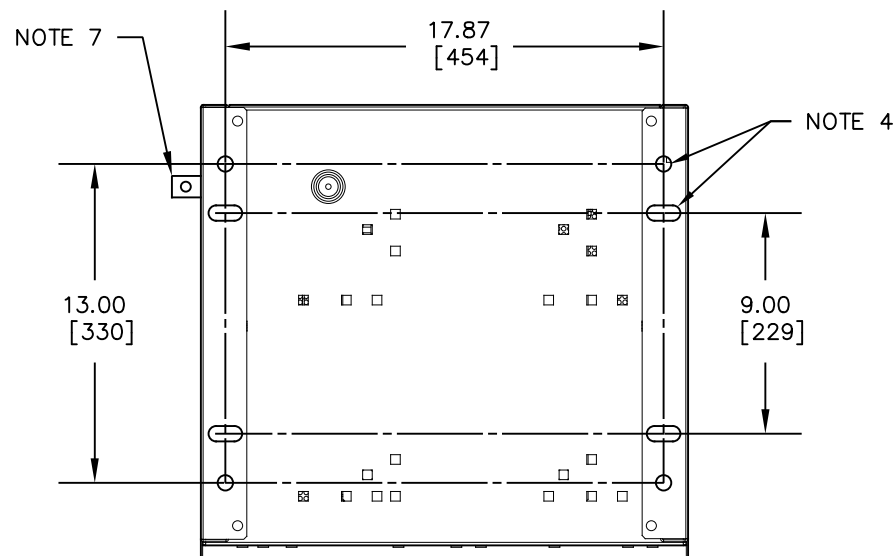
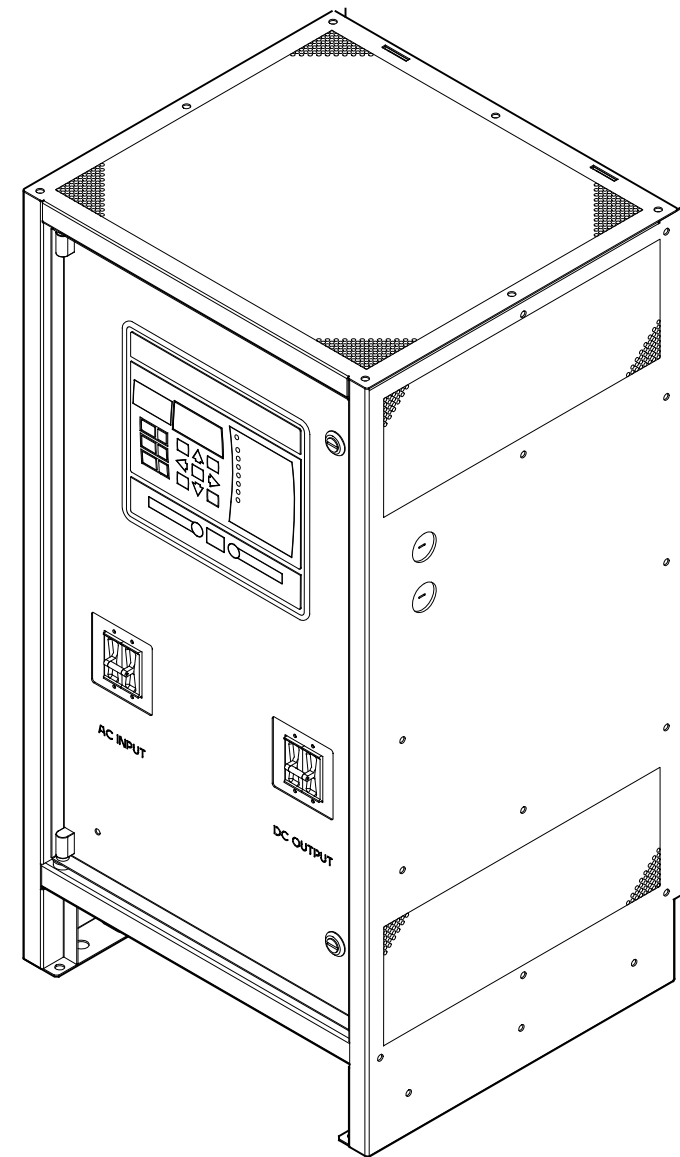
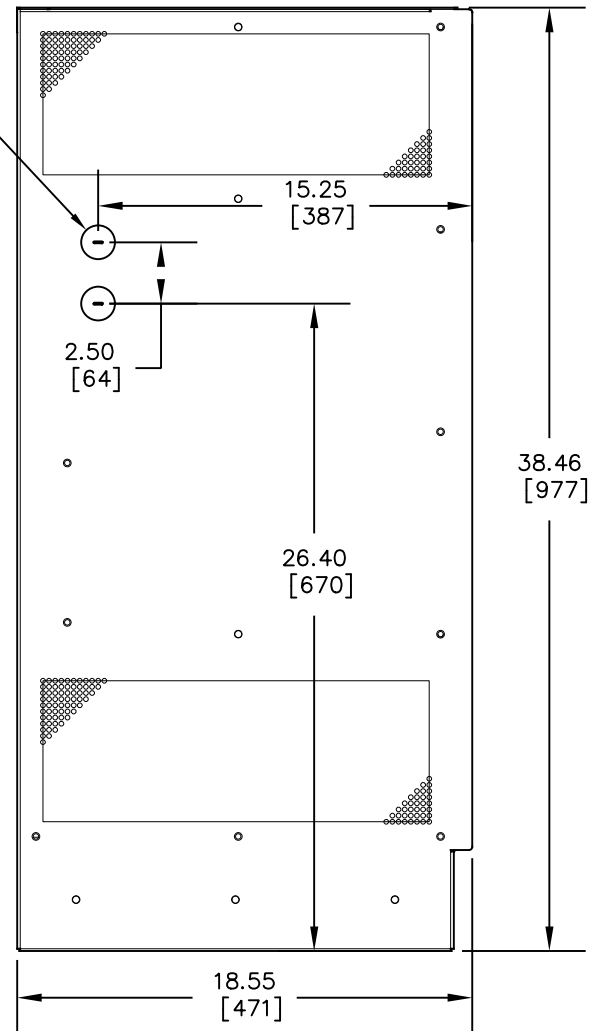
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



BOTTOM MOUNTING VIEW

NOTES:

- ENCLOSURE IS A NEMA TYPE 1 / IP20 TOP-VENTED STEEL CABINET WITHOUT GASKETS. FINISH IS ANSI-61 GRAY EPOXY POWDERCOAT.
- ALLOW 6in / 152mm OF FREE AIR ON ALL VENTED SURFACES (TOP, SIDES & REAR) FOR COOLING.
- DATA NAMEPLATE (WITH CHARGER RATINGS) MOUNTED ON DOOR.
- FOUR (4) 0.5in / 12mm FLOOR-MOUNTING HOLES AND FOUR (4) 1in x 0.625in / 25mm x 16mm FLOOR-MOUNTING SLOTS ARE PROVIDED ON BOTTOM OF ENCLOSURE AS SHOWN.
- FOUR (4) 1.31in / 33mm DIA STANDARD PRE-FAB KEY-SLOT KNOCKOUTS ARE PROVIDED AS SHOWN FOR 1in / 25mm CONDUIT ENTRY. IF ADDITIONAL CONDUIT ENTRANCES ARE REQUIRED, ENCLOSURE SHOULD BE FIELD-MODIFIED BY INSTALLER.
- BATTERY CHARGER SHIPPING WEIGHT: APPROXIMATELY TBD lbs / TBD kg
- OPTIONAL GROUND BUS BAR WITH 0.41 in / 10.41 mm DIA HOLE.

DUAL DIMENSIONS ⁱⁿ [mm]

REV. 0	DRN BY KJB	CHK BY MCR	APP BY MCR	DATE 11/07/19	DRN BY KJB	DATE 11/07/19
DESCRIPTION STANDARD DRAWINGS.					CHK BY MCR	DATE 11/07/19
					APP BY MCR	DATE 11/07/19

HINDLEPOWER

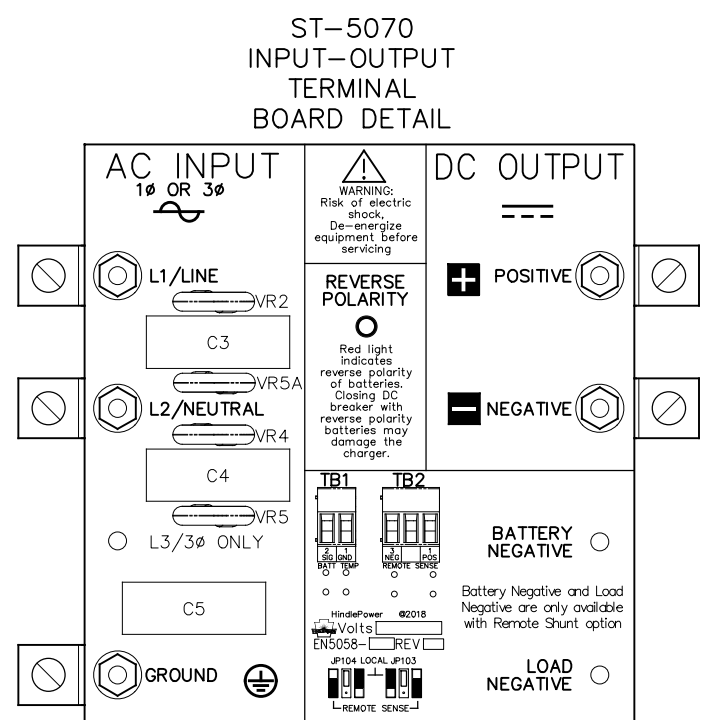
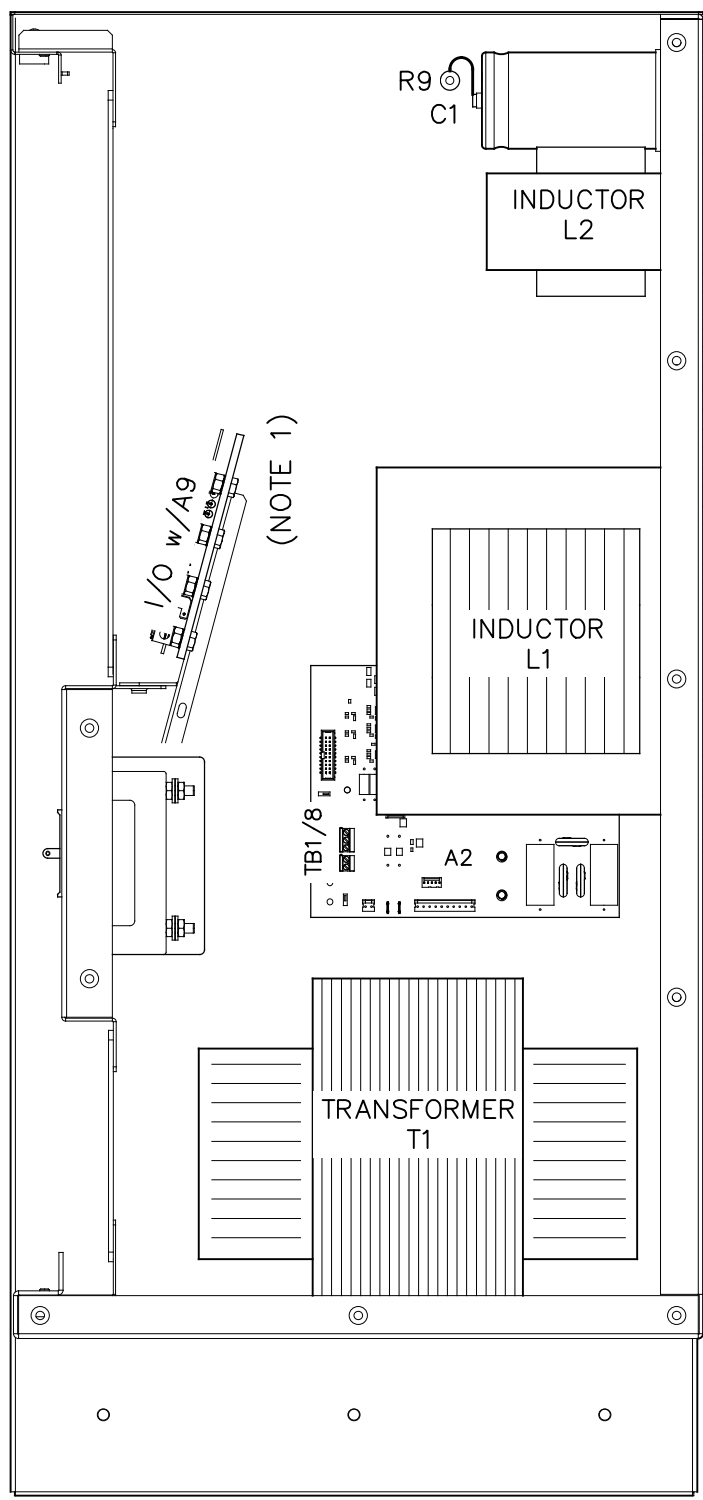
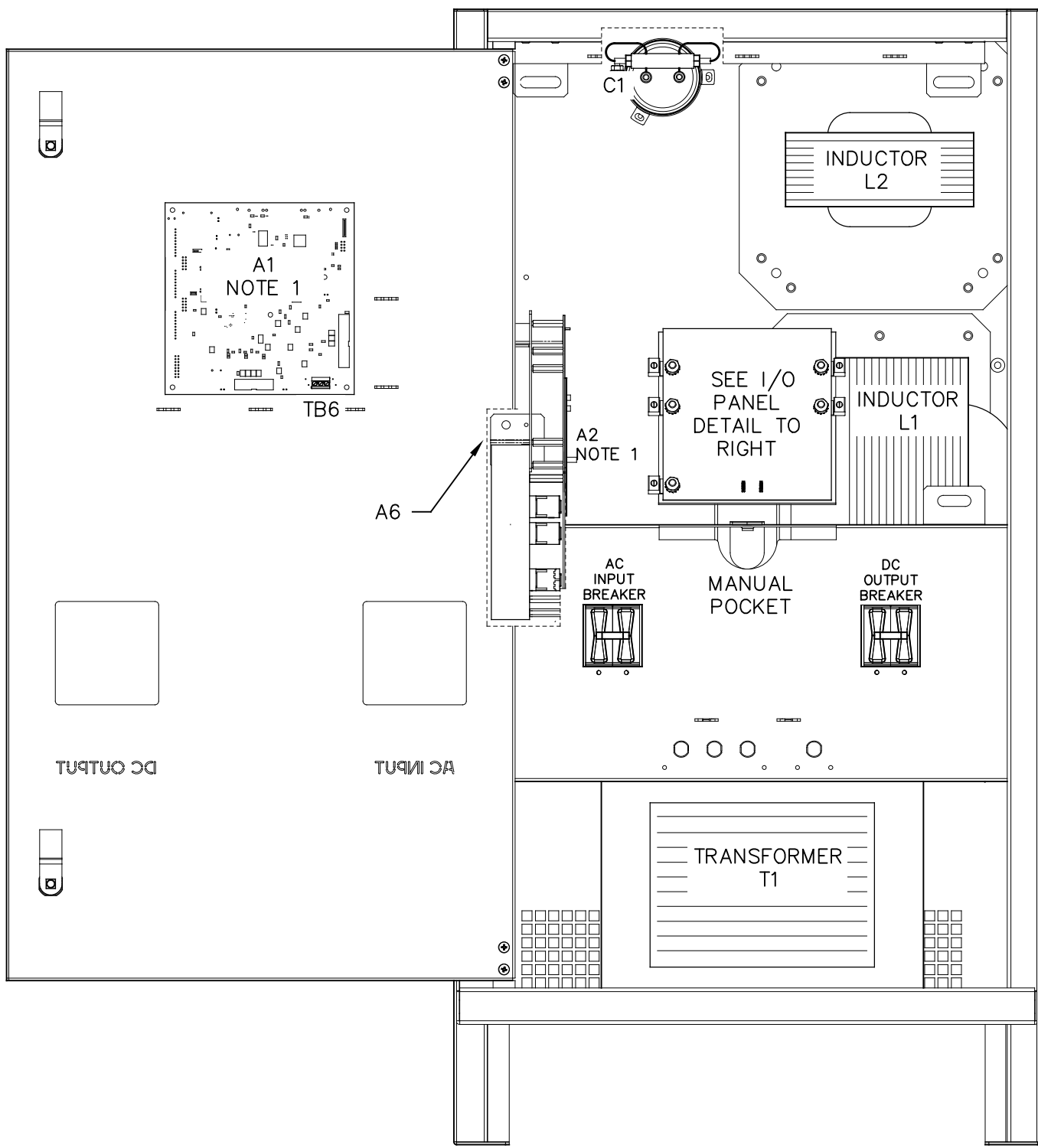
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TITLE
**ATEVO BATTERY CHARGER
OUTLINE: NEMA-1 STYLE-5070 ENCL**

SCALE **B** DWG No **JE5309-00**

REV 0 SHEET 1 OF 1

SYM	STANDARD COMPONENT DESCRIPTION
A1	MAIN CONTROL PC BOARD
A2	POWER BOARD
A6	RECTIFIER ASSEMBLY
A9	MOV PC BOARD
C1	FILTER CAPACITOR
CB1	AC INPUT CIRCUIT BREAKER (CD2)
CB2	DC OUTPUT CIRCUIT BREAKER (CD2)
AUXCB2	DC CKT BKR (CB2) AUXILIARY CONTACTS
L1	MAIN INDUCTOR
L2	FILTER INDUCTOR
R9	FILTER CAP BLEED RESISTOR
T1	POWER TRANSFORMER



I/O TERMINAL	DESCRIPTION - TYPE	CONNECTION
I/O (+/-)	POS/NEG OUTPUT TERMINALS - CU-ALUMINUM COMPRESSION LUG	#14-1/0 AWG
GND LUG	USER GROUND TERMINAL - CU-ALUMINUM COMPRESSION LUG	#14-1/0 AWG
I/O (L1/L2)	AC INPUT TERMINALS - CU-ALUMINUM COMPRESSION LUG	#14-1/0 AWG
(A2) TB1	POS/NEG REMOTE SENSE TERMS (A2) - SOLDERLESS COMP SCREW	#22-14 AWG
(A2) TB8	TEMPCO PROBE (A10) TERM BLK - SOLDERLESS COMP SCREW	#22-14 AWG
(A1) TB6	SUMMARY ALARM TERMINAL BLOCK (A1) - SLDRLESS COMP SCREW	#22-14 AWG

NOTES:
 1. FOR DETAIL VIEWS OF ALL PC BOARDS (A1, A2, etc.) SEE DRAWING JE5313 - 00, 20, 30.

REV. DRN BY	CHK BY	APP BY	DATE	DRN BY	DATE:
C	KJB	MCR	6/28/2021	KJB	2/7/2020
DESCRIPTION				CHK BY	DATE:
STANDARD DRAWINGS.				MCR	2/7/2020
				APP BY	DATE:
				RDB	2/7/2020

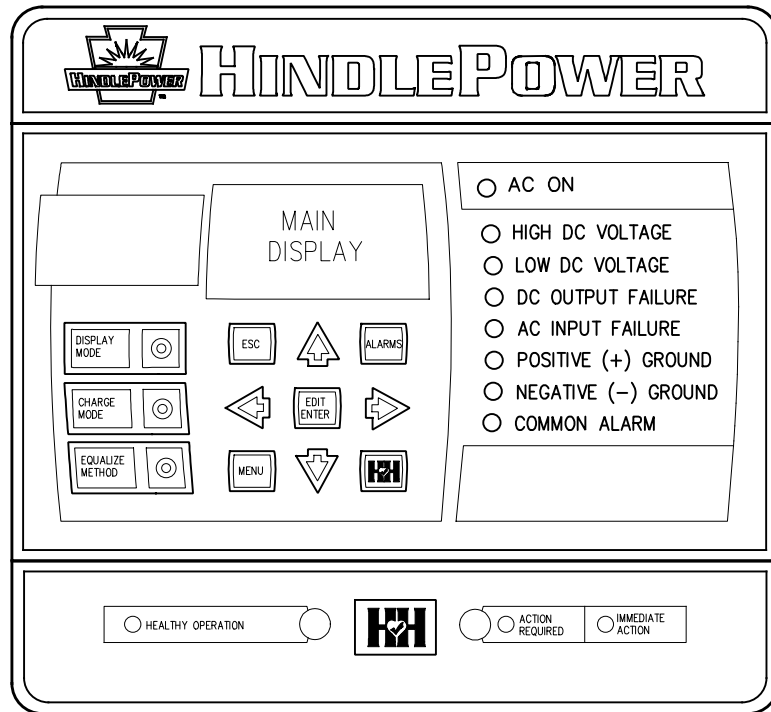
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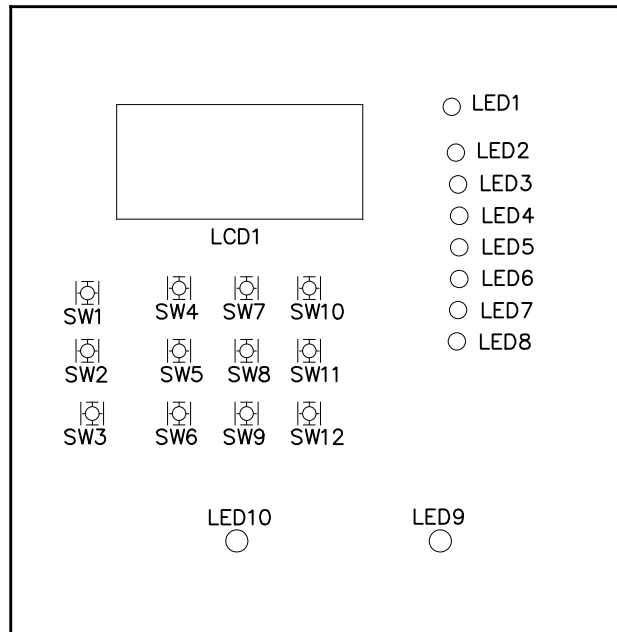
TITLE: ATEVO BATTERY CHARGER
 INTERNAL COMPONENT LAYOUT: STYLE-5070
 75-100ADC 1Ø WITHOUT OPTIONS

B SCALE DWG No
 NTS JE5310-20

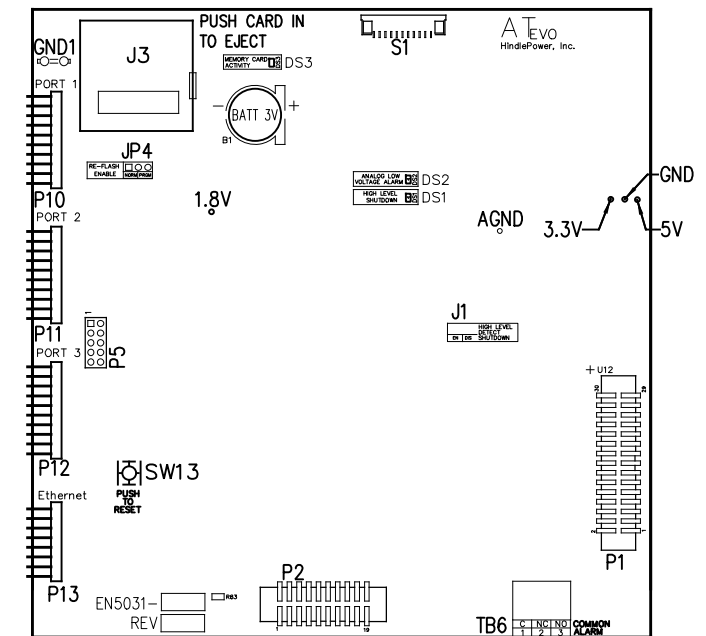
REV SHEET
 B 1 OF 1



CONTROL PANEL
(PART No. FK5047-00)



MAIN CONTROL PC BOARD (A1)
FRONT VIEW - FACING CHARGER DOOR WHEN INSTALLED



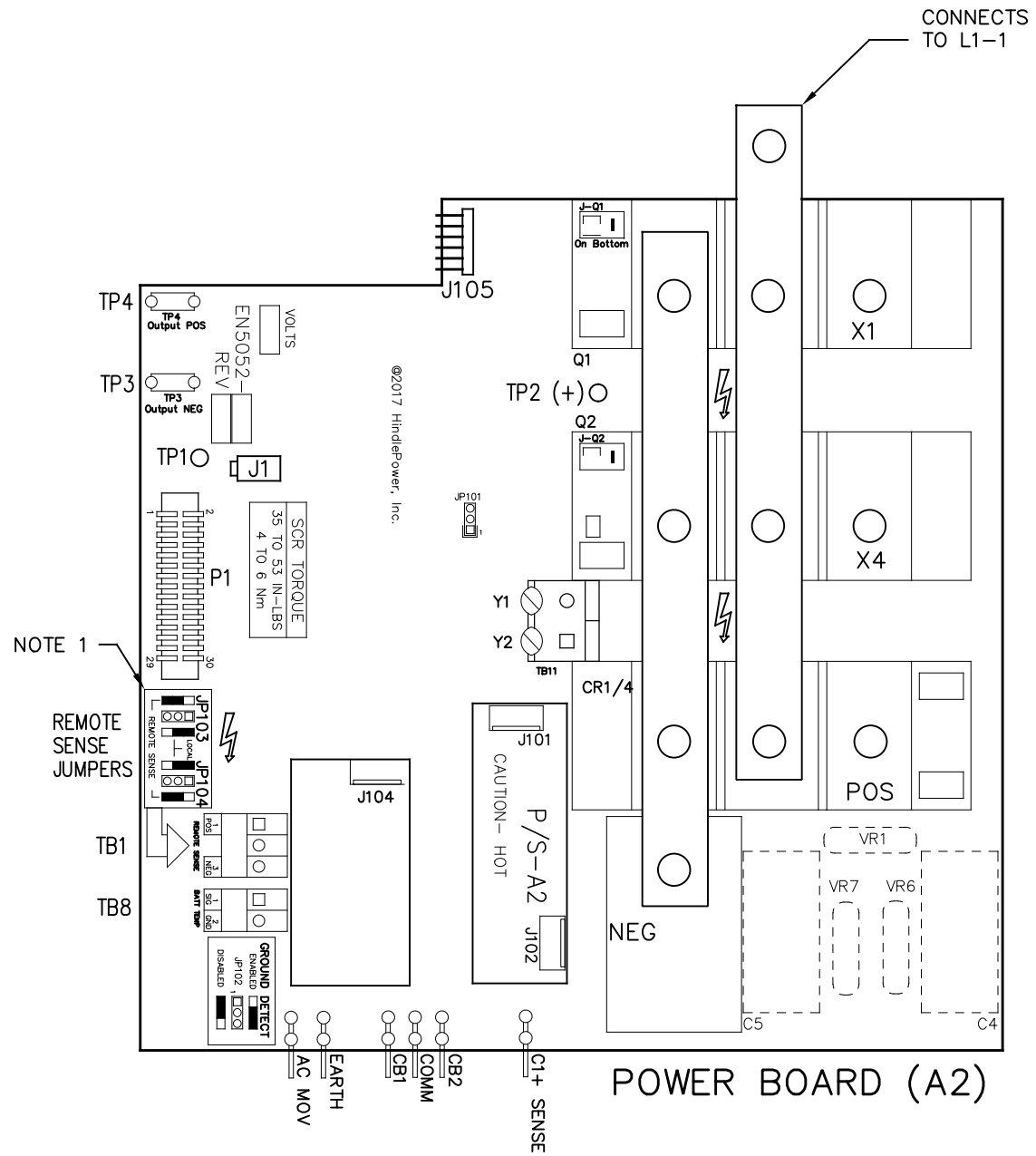
MAIN CONTROL PC BOARD (A1)
BACK VIEW - FACING CHARGER COMPONENTS WHEN INSTALLED

NOTE: ALL ALARM CONTACTS ARE ENERGIZED WHEN IN THE NON-ALARM STATE (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN CHARGER IS POWERED DOWN. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.

I/O TERMINAL	DESCRIPTION - TYPE	CONNECTION
(A1) TB6	SUMMARY ALARM TERMINAL BLOCK (A1) - SOLDERLESS COMP SCREW	#22-14 AWG


MAIN CONTROL PC BOARD (A1)			
INDICATOR LIGHTS (LEDs):	JUMPERS:	SWITCHES:	CONNECTORS:
LED1 - GREEN - AC ON	J1 - ANALOG HIGH VOLTAGE SHUTDOWN JUMPER	S1 - DISPLAY BUTTON	P1 - POWER BOARD RIBBON
LED2 - RED - HIGH DC VOLTAGE ALARM	J3 - SD CARD PORT	S2 - CHARGE MODE BUTTON	P2 - 3 PHASE RECTIFIER RIBBON
LED3 - RED - LOW DC VOLTAGE ALARM	JP4 - RE-FLASH (FIELD PROGRAMMING) JUMPER	S3 - EQUALIZE METHOD BUTTON	P3 - USB EXPANSION PORT
LED4 - RED - DC OUTPUT FAILURE ALARM	TERMINAL BLOCKS:	S4 - ESCAPE (ESC) BUTTON	P4 - SPI & I2C EXPANSION PORT #1
LED5 - RED - AC INPUT FAILURE ALARM	TB6 - COMMON ALARM RELAY CONTACTS	S5 - LEFT ARROW BUTTON	P5 - SPI & I2C EXPANSION PORT #2
LED6 - RED - POSITIVE (+) GROUND ALARM	TEST POINTS:	S6 - MENU BUTTON	P6 - DISPLAY SPI PORT
LED7 - RED - NEGATIVE (-) GROUND ALARM	1.8V - 1.8 VOLTS	S7 - UP ARROW BUTTON	P7 - DISPLAY JTAG PORTS
LED8 - RED - COMMON ALARM	3.3V - 3.3 VOLTS	S8 - EDIT / ENTER BUTTON	P10 - SERIAL INTERFACE PORT #1
LED9 - RED - ACTION REQUIRED ALARM	5V - 5.0 VOLTS	S9 - DOWN ARROW BUTTON	P11 - SERIAL INTERFACE PORT #2
LED10 - GREEN - HEALTHY OPERATION	GND - GROUND	S10 - ALARM BUTTON	P12 - SERIAL INTERFACE PORT #3
DS1 - RED - HIGH LEVEL SHUTDOWN (HLD)	AGND - ANALOG GROUND	S11 - RIGHT ARROW BUTTON	P13 - ETHERNET INTERFACE PORT
DS2 - RED - ANALOG LOW VOLTAGE ALARM (LLD)	SDA - MAIN BOARD I2C DATA	S12 - HINDLE HEALTH (HHS) BUTTON	P17 - GENERAL EXPANSION PORT
DS3 - RED - MEMORY CARD ACTIVITY	SCL - MAIN BOARD I2C CLOCK	SW13 - SYSTEM RESET BUTTON (BACK OF BOARD)	

REV. B	DRN BY KJB	CHK BY MCR	APP BY MCR	DATE 7/21/2021	DRN BY KJB	DATE: 11/7/19	<p>HINDLEPOWER</p> <p>1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com</p>	
DESCRIPTION: STANDARD DRAWINGS.					CHK BY MCR	DATE: 11/7/19		
ECN NO. N/A					APP BY MCR	DATE: 11/7/19		
<p>TITLE: ATEVO BATTERY CHARGER CONTROL PANEL / PC BOARD DETAIL</p> <p>75-100ADC 1Ø WITHOUT OPTIONS</p>							<p>SCALE: B</p> <p>DWG No: JE5313-20</p>	<p>REV: B</p> <p>SHEET: 1 OF 2</p>



- USER TERMINALS ON POWER BOARD (A2):
- TB1 - REMOTE VOLTAGE SENSE
 - TB8 - BATTERY TEMPERATURE COMPENSATION
 - TB11 - 'Y' CONTROL WINDINGS
- JUMPERS ON POWER BOARD (A2):
- JP102 - GROUND DETECT CIRCUIT ENABLE / DISABLE
 - JP103 - REMOTE OR LOCAL SENSE SELECTOR (+)
 - JP104 - REMOTE OR LOCAL SENSE SELECTOR (-)
- CONNECTORS ON POWER BOARD (A2):
- J1 - POWER OUT
 - J101 - DC POWER SUPPLY
 - J102 - DC POWER SUPPLY
 - J105 - AUXILIARY I/O BOARD
 - P1 - MAIN CONTROL BOARD RIBBON
- DISCRETE TERMINALS:
- AC MOV - CHASSIS EARTH GROUND
 - EARTH - CHASSIS EARTH GROUND (DOOR)
 - CB1 - AC BREAKER AUX SWITCH CONTACT
 - CB2 - DC BREAKER AUX SWITCH CONTACT
 - POS - POSITIVE CONNECTION POINT
 - NEG - NEGATIVE CONNECTION POINT
 - COMM - BREAKER AUX SWITCH COMMON
 - X1 - TRANSFORMER SECONDARY WINDING
 - X4 - TRANSFORMER SECONDARY WINDING
 - L1-1 - FILTER INDUCTOR #1 (TERMINAL #1)
 - L1-2 - FILTER INDUCTOR #1 (TERMINAL #2)
- TEST POINTS ON POWER BOARD (A2):
- TP1 - PRE-FILTERED DC BUS (-)
 - TP2 - PRE-FILTERED DC BUS (+)
 - TP3 - DC BUS (-)
 - TP4 - DC BUS (+)

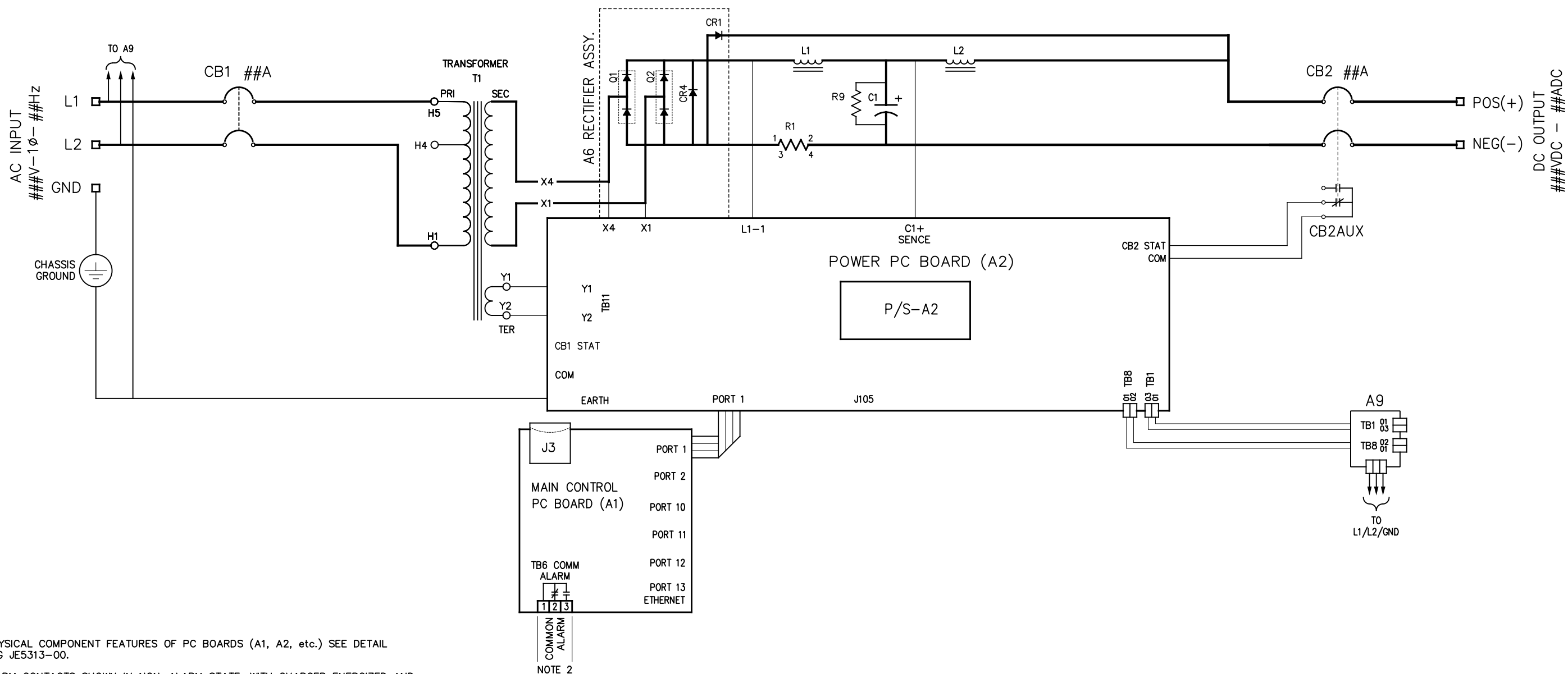
I/O TERMINAL	DESCRIPTION - TYPE	CONNECTION
(A2) TB1	POS/NEG REMOTE SENSE TERMS (A2) - SOLDERLESS COMP SCREW	#22-14 AWG
(A2) TB8	TEMPCO PROBE (A10) TERM BLK - SOLDERLESS COMP SCREW	#22-14 AWG



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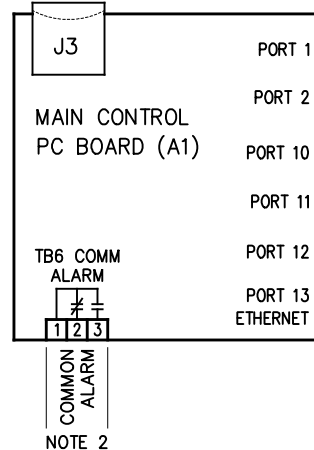
TITLE: ATEVO BATTERY CHARGER
 CONTROL PANEL / PC BOARD DETAIL
 75-100ADC 1Ø WITHOUT OPTIONS

B	SCALE	DWG No	REV	SHEET
	NTS	JE5313-20	B	2 OF 2



NOTES:

1. FOR PHYSICAL COMPONENT FEATURES OF PC BOARDS (A1, A2, etc.) SEE DETAIL DRAWING JE5313-00.
2. ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE, WITH CHARGER ENERGIZED AND ALARM RELAYS ENERGIZED (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN CHARGER IS POWERED DOWN. CONTACT RATING IS: 0.5A @ 125VAC/VDC RESISTIVE.



REV. B	DRN BY KJB	CHK BY MCR	APP BY MCR	DATE 12/10/19	DRN BY KJB	DATE 12/10/19
DESCRIPTION STANDARD DRAWINGS.					CHK BY MCR	DATE 12/10/19
					APP BY MCR	DATE 12/10/19

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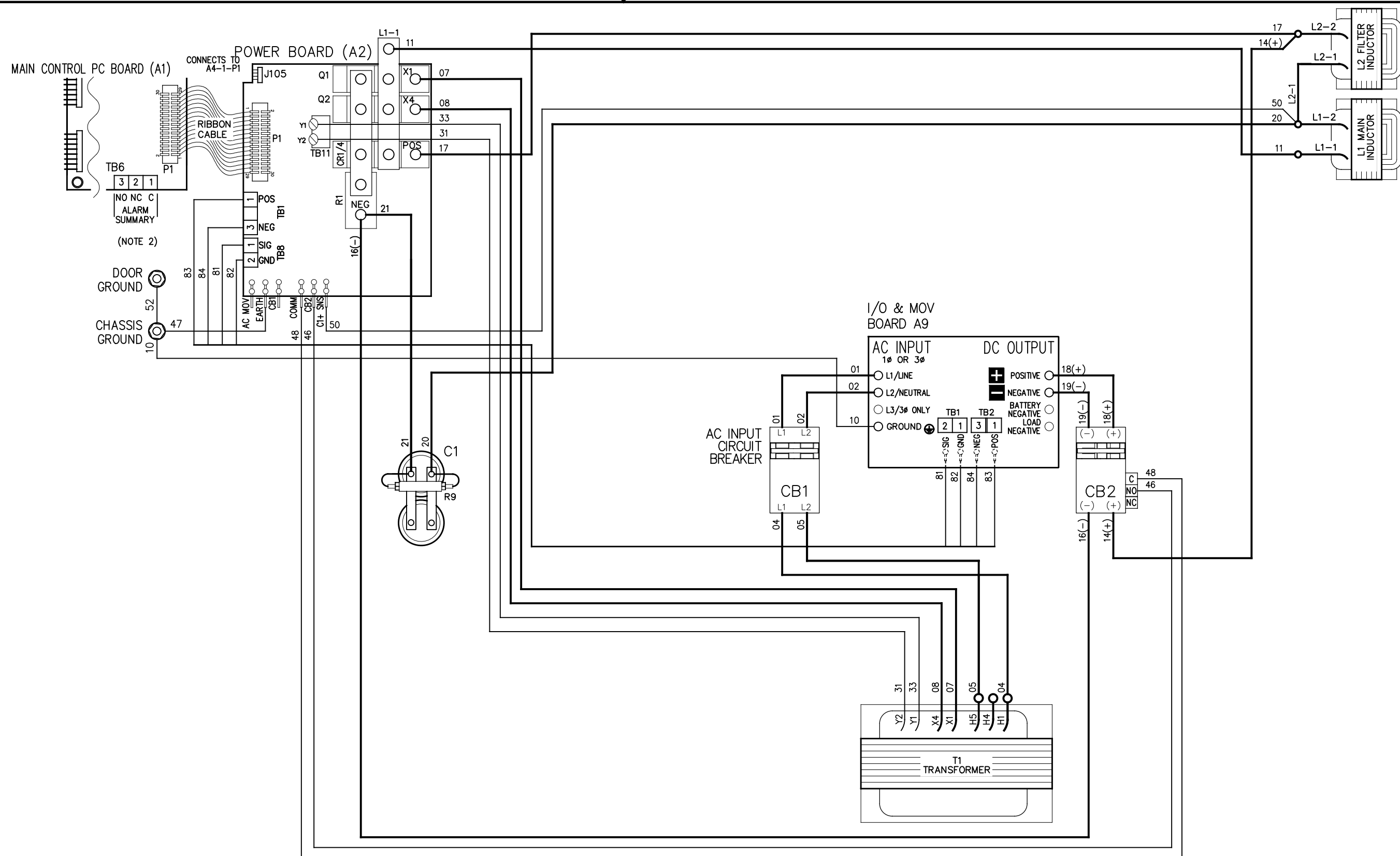
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TITLE
ATEVO BATTERY CHARGER
1Ø STYLE 5070 SCHEMATIC:
75-100ADC 1Ø WITHOUT OPTIONS

B

SCALE DWG No
NTS JE5311-20

REV SHEET
B 1 OF 1



NOTES:

1. WHEN NATURAL LEADS OF MAGNETICS ARE NOT USED, CHARGER COMPONENTS ARE CONNECTED WITH BLACK FLAME-RETARDANT SWITCHBOARD INSULATION SYSTEM (SIS) TYPE WIRING, IDENTIFIED ON EACH END WITH NUMBER-CODED MARKERS. GROUND WIRES ARE GREEN WITH YELLOW STRIPE.

REV. C	DRN BY KJB	CHK BY MCR	APP BY MCR	DATE 4/7/2021	DRN BY KJB	DATE: 1/21/2020	<p>HINDLEPOWER</p> <p>1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com</p>
DESCRIPTION STANDARD DRAWINGS.					CHK BY MCR	DATE: 1/21/2020	
					APP BY MCR	DATE: 1/21/2020	
TITLE ATEVO BATTERY CHARGER CONN DIAGRAM: 1Ø STYLE 5070 75-100ADC 1Ø WITHOUT OPTIONS							SCALE DWG No B NTS JE5312-20
							REV C SHEET 1 OF 1